

20020919.qrp v02\_n683.qrl.20020919

Date: Thu, 19 Sep 2002 19:03:10 EDT  
From: qrp-l@Lehigh.EDU  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: QRP-L digest 2683

QRP-L Digest 2683

Topics covered in this issue include:

- 1) [135442] Re: RA3AAE's mixer/doubler  
by "Oleg V. Borodin" <master72@lipetsk.ru>
- 2) [135443] S-Meter for QRP Rig  
by KC4FKX@aol.com
- 3) [135444] Re: 4053 Mixer on harmonics?  
by "Ian Wilson" <ianmwilson@earthlink.net>
- 4) [135445] Re: Last nights NEQRP SSB NET action on 7.287Mhz  
by "John O. Newell" <jnewell@attbi.com>
- 5) [135446] RE: OT -- Radio Frequency Spectrum Chart needed  
by Patrick Gardella <pgardella@yahoo.com>
- 6) [135447] RE: Magnetic shielding for vfo's  
by Nick Kennedy <nkennedy@tcainternet.com>
- 7) [135448] RE: My Old Argonaut 509 (very long)  
by Nick Kennedy <nkennedy@tcainternet.com>
- 8) [135449] Re: What's scarier than mounting surface mount parts?  
by "Rod N0RC" <rod@n0rc.us>
- 9) [135450] Ham radios at a ham club picnic--what a concept!  
by Nick Kennedy <nkennedy@tcainternet.com>
- 10) [135451] Re: Used EZ-Hang or Equivalent Device  
by "Winston F. Jones" <winjones@ix.netcom.com>
- 11) [135452] Portable Keyer Paddles?  
by "nr5a" <nr5a@hills.net>
- 12) [135453] Re: Portable Keyer Paddles?  
by "Tim, N9PUZ" <n9puz@arrl.net>
- 13) [135454] Re: Roof Tower Thoughts?  
by "tmyers" <tmyers@academicplanet.com>
- 14) [135455] Re: Portable Keyer Paddles?  
by "Rod N0RC" <rod@n0rc.us>
- 15) [135456] OT: Ramsey FR-146  
by Kenneth Hoglund <hoglund@wfu.edu>
- 16) [135457] Aluminum vs. magnetic materials and noble metals  
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 17) [135458] Re: Portable Keyer Paddles?  
by "blinn" <blinn@smgazette.com>
- 18) [135459] Re: Used EZ-Hang or Equivalent Device  
by John Farler <jfarler@peoplepc.com>
- 19) [135460] NEQRP CW Net, Thursday, 19 Sept 02, 08:30 PM EST, 3.565 MHz

- by Chuck Ludinsky <cjl@mitre.org>
- 20) [135461] MFJ is source for remaining Curtis keyer chips  
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 21) [135462] Fence wire for antennas??  
by Howard Friedman <haf47@juno.com>
- 22) [135463] Re: Fence wire for antennas??  
by "Mike Yetsko" <myetsko@insydesw.com>
- 23) [135464] [OT] Antenna farm in movie  
by "Paul Mills" <quahog@localnet.com>
- 24) [135465] Radio Frequency Spectrum Chart Needed  
by "David B. Sarraf" <david.sarraf@paonline.com>
- 25) [135466] Re: Roof Tower Thoughts?  
by Dave Richards <wr3i@earthlink.net>
- 26) [135467] Re: MFJ is source for remaining Curtis keyer chips  
by "Hugo W. Catta" <hugo@optonline.net>
- 27) [135468] looking for Curtis Chip 8044  
by "Michael Bower N4NMR" <bowerm@ix.netcom.com>
- 28) [135469] Fence wire for antennas??  
by "W2WU" <w2wurjj@verizon.net>
- 29) [135470] 12 volt portable power source.  
by "Kelly Ellison" <kelman@sofnet.com>
- 30) [135471] Re: Rock Hunting --- Winter of '02 (or '03)  
by "Rod N0RC" <rod@n0rc.us>
- 31) [135472] Re: Portable Keyer Paddles?  
by "John J. McDonough" <wb8rcr@arrl.net>
- 32) [135473] Re: Fence wire for antennas??  
by Dave Hottell <hottell@gulftel.com>
- 33) [135474] Re: [OT] Antenna farm in movie  
by Jim Crooke <crooke@prodigy.net>
- 34) [135475] Re: [OT] Antenna farm in movie  
by George Fremin III - K5TR <geoiiii@kkn.net>
- 35) [135476] Re: 12 volt portable power source.  
by "rmcnelly@cox.net" <rmcnelly@cox.net>
- 36) [135477] Re: [OT] Antenna farm in movie  
by Tom Feeny <tfeeny@comcast.net>
- 37) [135478] RE: Etchant Resist  
by John Seboldt <k0jd-l@seboldt.net>
- 38) [135479] Four State QRP Group "Ham-Out" This Weekend  
by "David Bixler" <qrp@netins.net>
- 39) [135480] WTB = Yaesu FT100D  
by "Doc Lindsey K0EVZ" <dock0evz@earthlink.net>
- 40) [135481] WORTH READING - N7JI selling almost everything - THP-750, keys,  
paddles, keyers, VHF, QRP, HF, filters, service monitor, HTs, batteries,  
by "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>
- 41) [135482] Re: Ten-Tec ARGO 509, etc.  
by George Gingell <k3tks@u1.abs.net>
- 42) [135483] RE: [OT] Quito, Ecuador  
by Karl Kanalz <kkanalz@gceecisp.com>

- 43) [135484] Re: Curtis Keyer Chips  
by George Gingell <k3tks@u1.abs.net>
- 44) [135485] Re; EZ-Hang and Other not so easy methods  
by George Gingell <k3tks@u1.abs.net>
- 45) [135486] Re: [OT] Antenna farm in movie  
by "Brian" <brian@iquest.net>
- 46) [135487] Re: Radio Frequency Spectrum Chart Needed  
by "Brian" <brian@iquest.net>
- 47) [135488] Cheap Lead Weights  
by Karl Kanalz <kkanalz@gcecispc.com>
- 48) [135489] [CONTEST] N2CQ QRP Contest Calendar Sep 20-30  
by "Ken Newman" <n2cq@dandy.net>
- 49) [135490] Re: [OT] Antenna farm in movie  
by "John J. McDonough" <wb8rcr@arrl.net>
- 50) [135491] QRP With 100 Watt Rig  
by Hal Offutt <japancorporateresearch@compuserve.com>
- 51) [135492] Re: 12 volt portable power source.  
by "Mike Yetsko" <myetsko@insydesw.com>
- 52) [135493] Re: [OT] Antenna farm along I-80  
by George Fremin III - K5TR <geoiiii@kkn.net>
- 53) [135494] Re: [OT] Antenna farm along I-80  
by "John J. McDonough" <wb8rcr@arrl.net>
- 54) [135495] Re: [OT] Antenna farm in movie  
by k8ff@juno.com
- 55) [135496] Re: Fence wire for antennas??  
by David Hinerman <WD8CIV@worldnet.att.net>
- 56) [135497] Re: [OT] Antenna farm in movie  
by David Hinerman <WD8CIV@worldnet.att.net>
- 57) [135498] RE: Weights For the "E-Z Hang"?  
by brewerj@squared.com
- 58) [135499] Making PCBs at home (long)  
by "Leon Heller" <leon\_heller@hotmail.com>
- 59) [135500] eHam surprise  
by Kenneth Hoglund <hoglund@wfu.edu>
- 60) [135501] Re: QRP With 100 Watt Rig  
by "Rod NØRC" <rod@nØrc.us>
- 61) [135502] Re: Cheap Lead Weights  
by "George, W5YR" <w5yr@att.net>
- 62) [135503] Re: Fence wire for antennas??  
by "Walter AG5P" <walter@accessus.net>
- 63) [135504] Re: QRP With 100 Watt Rig  
by "Mark J. Dulcey" <mark@buttery.org>
- 64) [135505] RE: Great QRP column by K7SZ  
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
- 65) [135506] Re: OT -- Radio Frequency Spectrum Chart needed  
by Haines Brown <brownh@hartford-hwp.com>
- 66) [135507] Re: QRPvs.QRO  
by Bruce Muscolino <w6toy@erols.com>

- 67) [135508] RA3AAE mixer - SPICE simulation  
by "Leon Heller" <leon\_heller@hotmail.com>
- 68) [135509] Re: eHam surprise  
by "George, W5YR" <w5yr@att.net>
- 69) [135510] Re: [OT] Antenna farm in movie  
by Hal Offutt <japancorporateresearch@compuserve.com>
- 70) [135511] CQ fm EA5 agn!  
by "Juanjo Pastor" <ec5aca@wanadoo.es>
- 71) [135512] Re: What's scarier than mounting surface mount parts?  
by John Seboldt <k0jd-l@seboldt.net>
- 72) [135513] Education movies for HAMLET's  
by Alen Mitrovic <alen.mitrovic@hermes.si>
- 73) [135514] Re: Making PCBs at home (long)  
by Dave Marling <ve1vq@auracom.com>
- 74) [135515] re: Quito Antenna Farm  
by "Charles W3KC" <w3kc@starpower.net>
- 75) [135516] Re: Making PCBs at home (long)  
by "John McClain" <digi2@earthlink.net>
- 76) [135517] OT -- Radio Frequency Spectrum Chart needed THANKS!  
by "Steve Blary" <steve@eclipsecat.com>
- 77) [135518] re: ChipQuick kit (de ken n9vv)  
by Ken Hopper <khopper@uchicago.edu>
- 78) [135519] Re: Making PCBs at home (long)  
by "Leon Heller" <leon\_heller@hotmail.com>
- 79) [135520] Rock-Mite Kicks Atmosphere  
by <jmbrown@edge.net>
- 80) [135521] Re: QRP With 100 Watt Rig  
by Jim Larsen - AL7FS <JimLarsen2002@alaska.net>
- 81) [135522] re: ChipQuick kit (de ken n9vv)  
by David Hinerman <WD8CIV@worldnet.att.net>
- 82) [135523] Multiple counterpoises  
by Alex <kr1st@amsat.org>
- 83) [135524] Re: QRP With 100 Watt Rig  
by "Robin Kidd" <robink@us.ibm.com>
- 84) [135525] Norcal SST  
by "Paul Christensen" <w9ac@arrl.net>
- 85) [135526] Re: Rock-Mite Kicks Atmosphere  
by Chuck Adams <k7qo@earthlink.net>
- 86) [135527] Homemade soldermask?  
by tomb@kiva.net (Thomas H. Busch)
- 87) [135528] Re:Multiple counterpoises  
by Lloyd Lachow <llachow@yahoo.com>
- 88) [135529] FS: Tentec KR1 paddle and T-Kit keyer  
by Steve <semann@tcia.net>
- 89) [135530] Re: Rock-Mite Kicks Atmosphere  
by W2AGN <w2agn@w2agn.net>
- 90) [135531] Re: ChipQuick kit (de ken n9vv)  
by "" <markb@abq.com>

- 91) [135532] Sound samples  
by "Hubert Smits" <hubert.smits@btinternet.com>
- 92) [135533] Re: Rock-Mite Kicks Atmosphere  
by "Lee Mairs" <lmairs@cox.net>
- 93) [135534] Re: Rock-Mite Kicks Atmosphere  
by W2AGN <w2agn@w2agn.net>
- 94) [135535] Re: [Re: Rock-Mite Kicks Atmosphere]  
by Rod N0RC <rod@n0rc.us>
- 95) [135536] Them Rock-Mite Mods  
by Nils R Young <nilsbull@juno.com>
- 96) [135537] Re: Great QRP column by K7SZ  
by "K7SZ" <rarland@earthlink.net>
- 97) [135538] Re: Great QRP column by K7SZ  
by Tom Feeny <tfeeny@comcast.net>
- 98) [135539] Re: Making PCBs at home (long)  
by "Tim, N9PUZ" <n9puz@arrl.net>
- 99) [135540] Re: Sound samples  
by "W3CDE Jerry L." <w3cde@bellsouth.net>
- 100) [135541] re: ChipQuick kit (de ken n9vv)  
by "Leon Heller" <leon\_heller@hotmail.com>
- 101) [135542] Re: QRP-L digest 2682  
by Shawn Upton <kb1ckt@yahoo.com>
- 102) [135543] Re: Rock-Mite Kicks Atmosphere  
by "Tim, N9PUZ" <n9puz@arrl.net>
- 103) [135544] 10M Hoppin' Today  
by W2AGN <w2agn@w2agn.net>
- 104) [135545] Re: 12 volt portable power source.  
by Rick McKee <kc8aon@juno.com>
- 105) [135546] Plated-Thru Hole Blues  
by "Dennis Payton" <dpayton@fwi.com>
- 106) [135547] Re: Plated-Thru Hole Blues  
by "George, W5YR" <w5yr@att.net>
- 107) [135548] CW Frequency Readout :Icom IC-T90A  
by wkhibbert@juno.com
- 108) [135549] Argo 509's and QRP Collectables ...  
by VE3JC John Cumming <jbcumming@wwdc.com>
- 109) [135550] RE: Plated-Thru Hole Blues  
by Nick Kennedy <nkennedy@tcainternet.com>

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Date: Wed, 18 Sep 2002 23:01:13 +0400  
From: "Oleg V. Borodin" <master72@lipetsk.ru>  
To: <leon\_heller@hotmail.com>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135442] Re: RA3AAE's mixer/doubler  
Message-ID: <008e01c25f66\$cea332e0\$d5e522c3@user>  
MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 8bit

Dear Leon!

I know all RA3AAE constructions very good. I begin used his RXs since I was SWL in '76 year. And for the time! It's very good RX's, high sensitivity and clear sound. Also, that I very like, too smalls. I has made RA3AAE receivers by only 3 transistors for 20/40/80 m bands. All results are very well. Also I has made a transmitter's unit for RX's with mixer/doubler, when oscillator runs at half freq of RX input. I made a keyed doubler-freq amplifier for TX mode and a single transistor's simple PA. Also there are necessary to use a RIT unit. It was a very simple but good enough trcvr DC for QRPp operation. If any QRPers interesting for RA3AAE constructions - welcome to talk with me. I must say that Vladimir is my teacher of DC/QRP.

72! de RV3GM/QRP Oleg V. Borodin

"RU-QRP" Club's Chairman

Club's info at <http://www.qsl.net/rv3gm>

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: Leon Heller <leon\_heller@hotmail.com>  
: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
: 18                    2002   . 0:59  
: RA3AAE's mixer/doubler

>I first heard of Vladimir's mixer in 1977, and it has popped up occasionally

>in various mags. over the intervening years. George, G3RJV, has just written

>about it in the current issue of Practical Wireless, with details of a

>simple 40m receiver using the technique. With a few minutes Googling, I

>found a much better implementation:

><http://www.qsl.net/ok1ayu/projects/rx80.htm>

>

>Since the oscillator runs at half the input frequency, it has the great  
>advantage that minimal screening is required. Also, the oscillator will be  
>more stable, at the lower frequency. The technique is getting popular at  
>microwave frequencies.

>

>Has anyone on the list used it?

>

>73, Leon

>--

>Leon Heller, G1HSM

>[leon\\_heller@hotmail.com](mailto:leon_heller@hotmail.com)

>[http://www.geocities.com/leon\\_heller](http://www.geocities.com/leon_heller)

>

-----  
Date: Wed, 18 Sep 2002 19:00:24 EDT  
From: KC4FKX@aol.com  
To: qrp-1@lehigh.edu (Low Power Amateur Radio Discussion)  
Subject: [135443] S-Meter for QRP Rig  
Message-ID: <184.e9534d4.2aba5f88@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

I would like to incorporate an S-Meter in one (NorCal 40A) or more (Green Mountain 40) of my QRP Rigs. Can anyone tell me where I need to "tap in" as well as any other necessary information.

Thanks,

Frank, KC4FKX

-----  
Date: Wed, 18 Sep 2002 16:07:02 -0700  
From: "Ian Wilson" <ianmwilson@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [135444] Re: 4053 Mixer on harmonics?  
Message-ID: <001801c25f68\$19d62fa0\$0b02a8c0@trabucoserver>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

This is the behavior that I see with a symmetrical L0 waveform. The circuit will only produce output with an L0 running at half the input if the L0 waveform isn't symmetrical.

It does produce output on odd harmonics with a symmetrical waveform.

--ian k3imw/6

>  
> I don't have your circuit model, but I suspect that when you halve the L0  
> frequency one cycle is worth almost two cycles of input. Put another way,  
> if one of your mixer switches is turned on for 1/2 cycle of the L0 (which  
> is how I've seen most such mixers operate) it'll pass almost a whole cycle  
> of the input signal. If you follow the mixer with a low-pass filter, that

> whole cycle averages out to almost nothing.  
>  
> Dave  
>  
> -----  
> "You can fool some of the people all of the time. That's enough to make a  
> living." - Lance Burton  
> -----  
> Dave Hinerman  
> WD8CIV@att.net  
>

-----  
Date: Wed, 18 Sep 2002 19:33:16 -0400  
From: "John O. Newell" <jnewell@attbi.com>  
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135445] Re: Last nights NEQRP SSB NET action on 7.287Mhz  
Message-ID: <3D890D3C.629B0423@attbi.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

> KB1FKM            John        Danbury CT                    FT-817

Rom -- Band condx worse than I thought! <ggg> I think that  
should be:

KB1FPM John Weston MA FT-817

;-)

72/73  
John KB1FPM

-----  
Date: Wed, 18 Sep 2002 16:35:57 -0700 (PDT)  
From: Patrick Gardella <pgardella@yahoo.com>  
To: steve@eclipsecat.com, qrp-l <qrp-l@lehigh.edu>  
Subject: [135446] RE: OT -- Radio Frequency Spectrum Chart needed  
Message-ID: <20020918233557.73168.qmail@web40203.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii



<http://www.fair-rite.com/pr09.htm> to be specific.

Patrick N3EO

--- Nick Kennedy <nkennedy@tcainternet.com> wrote:  
> I recently got a nice one by filling in a form on the Fair-Rite page. From  
> 0.5 to 4000 MHz, it shows where the various services are. And it also show  
> what ranges are best for certain types of ferrite products.  
>  
> 72--Nick, WA5BDU  
>  
>  
> -----Original Message-----  
> From: Steve Blary [SMTP:steve@eclipsecat.com]  
> Sent: Wednesday, September 18, 2002 3:18 PM  
> To: Low Power Amateur Radio Discussion  
> Subject: RE: OT -- Radio Frequency Spectrum Chart needed  
>  
> maybe I should be more specific <G> looking for some thing that will meet  
> the below requirments.  
>  
>

-----  
Do you Yahoo!?  
Yahoo! News - Today's headlines  
<http://news.yahoo.com>

-----  
Date: Wed, 18 Sep 2002 19:02:07 -0500  
From: Nick Kennedy <nkennedy@tcainternet.com>  
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135447] RE: Magnetic shielding for vfo's  
Message-ID: <01C25F45.E3217CC0.nkennedy@tcainternet.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Said I was going to get that quote from Terman's Electronic and Radio Engineering and I'm finally getting to it.

"The Shielding of Magnetic Flux at Radio Frequencies; Conducting Shields

The most practical shield for magnetic flux at radio frequencies is made of material having low electrical resistivity, such as copper or aluminum.

Magnetic flux in attempting to pass through such a shield induces voltages

in the shield which give rise to eddy currents. These eddy currents oppose the action of the flux, and in large measure prevent its penetration through the shield."

and later ...

"Shielding of D-C and Low-frequency Magnetic Fields; Magnetic Shields.

When shielding against unidirectional magnetic fields is required, a shield composed of magnetic material is employed. Such a shield tends to short-circuit the flux lines which attempt to extend through the shield."

So I'm thinking that if you're trying to limit inter-stage coupling and so on, you want the conductive type. If you are trying to keep power supply fields out of your circuits, for instance, you want the magnetic model. For our purposes, I think we want the conductive most often.

72--Nick, WA5BDU

-----Original Message-----

From: Stuart Rohre [SMTP:rohre@arlut.utexas.edu]

Thanks Karl, guess the profit line got to them, and they went to cheaper alloy.

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Date: Wed, 18 Sep 2002 19:12:35 -0500  
From: Nick Kennedy <nkennedy@tcainternet.com>  
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135448] RE: My Old Argonaut 509 (very long)  
Message-ID: <01C25F47.593111E0.nkennedy@tcainternet.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Enjoyable post.

For me, the Ten-Tec experience was all about QSK, although "all solid state" and "no tune" were also somewhat novel and exciting when I bought my first one.

The best break-in rigs I've ever owned were (in order from best):

Triton II

Triton IV

Corsair 1

Then, all others. I've even stopped using QSK altogether with the FT-1000, although it does a fair job now that I've figured out how to set the switches and killed that noisy amp control relay.

With the Triton 2, I could send a string of 25 WPM dits and the guy on the other end could break me with one dit.

Oh yeah, the Triton 4 with external VFO could do dual simultaneous receive. That was radical.

72--Nick, WA5BDU

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Date: Wed, 18 Sep 2002 18:17:01 -0600  
From: "Rod N0RC" <rod@n0rc.us>  
To: <markb@abq.com>,  
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [135449] Re: What's scarier than mounting surface mount parts?  
Message-ID: <005201c25f71\$e0bde640\$6401a8c0@greyrock>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Mark, et.al.,

I don't have the tiny nippers to cut IC leads. The desolder approach I take it not to save the part.

I surveyed the internet, every article I could find used a desolder method, not a single one suggested cutting the leads first. In a professional setup special tools are used to desolder all leads at once and remove the part. I simply developed a method that works well for me, using the tools I have. I'm sticking with it.

73, Rod N0RC

----- Original Message -----  
From: <markb@abq.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Wednesday, September 18, 2002 8:01 AM  
Subject: Re: What's scarier than mounting surface mount parts?

> Subject: What's scarier than mounting surface mount parts?

> Replacing a failed one!

> First I remove one tall part, a XTAL, to get access to the failed IC.  
> Next I wicked away excess solder from the IC pins/pads. Then,  
carefully,  
> I heated each pin/pad and lifted the lead with a dental pick ...  
> In less than five minutes the old part was out.

Why desolder a failed part and risk damaging the PCB or surrounding parts?  
Just cut the legs of the IC, remove it, then clean off each pad with an iron and some solder wick or vacuum desoldering iron. No sense in spending the time desoldering a part you're going to toss anyway.

Mark K5LXP  
Albuquerque, NM  
k5lxp@arrl.net

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Date: Wed, 18 Sep 2002 19:23:30 -0500  
From: Nick Kennedy <nkennedy@tcainternet.com>  
To: "Low Power Amateur Radio Discussion (E-mail)" <qrp-1@lehigh.edu>  
Subject: [135450] Ham radios at a ham club picnic--what a concept!  
Message-ID: <01C25F48.DFF42A40.nkennedy@tcainternet.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Had our ARVARF (Russellville, AR) club picnic last night.

Seems like in recent years you don't get much ham talk or ham show-and-tell at club meetings. People might talk about their computer trials and

triumphs or other non-ham stuff.

Not last night--One guy (W5RZ) brought his '817 for show and tell, and threw a dipole up into the trees. I brought my gell-cell and SW-30 bare board, connectors dangling. Another guy (WU5X) brought his new RockMite in the Altoids tin. And still another (K5BAT--still working on his Morse to upgrade), brought his tuna-tin.

Lots of CW beeping and J-38s clicking and people checking out the rigs.

The RockMite guy scored the only QSO, working to somewhere out in Texas with 400 mW and an antenna up maybe 20 feet.

We're not even a particularly QRP heavy group--but it's helping bring some of the fun back for us.

72--Nick, WA5BDU

BTW--the reason I got skunked had to be because I was plugged into a dinky little antenna called an Outbacker, I think. It was about four feet tall and sitting on a picnic table. Pretty neat looking little antenna though.

-----  
Date: Wed, 18 Sep 2002 20:24:51 -0400  
From: "Winston F. Jones" <winjones@ix.netcom.com>  
To: <myetsko@insydesw.com>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135451] Re: Used EZ-Hang or Equivalent Device  
Message-ID: <002501c25f72\$f9874ee0\$6274fea9@winston>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I'll give up my EZ Hang when they pry it from my cold, dead hand!

----- Original Message -----

From: "Mike Yetsko" <myetsko@insydesw.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Wednesday, September 18, 2002 18:45 PM  
Subject: Re: Used EZ-Hang or Equivalent Device

>

> ----- Original Message -----

> From: "Rick McKee" <kc8aon@juno.com>

> >

> > >Many localities prohibit slingshots for safety reasons.  
> >  
> > Then why not prohibit ball bats, golf clubs, knitting needles, sharp  
> > pointed scissors,  
> > SHEEEEEEESE ! where will the commies stop ?  
> >  
> > Rick McKee  
>  
> You really think you can predict how politicians will act, or assume  
> at all that logic will prevail?  
>  
> Here in Mass, we can own machine guns, but not slingshots. (Well, we  
> MAY be able to own them now, it's not certain!)  
>  
> Mike  
>  
>  
>

-----  
Date: Wed, 18 Sep 2002 18:23:38 -0600  
From: "nr5a" <nr5a@hills.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [135452] Portable Keyer Paddles?  
Message-ID: <029a01c25f72\$cdad43b0\$5ad98dd0@jerry>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I've never been interested in portable type paddles before so have never paid attention to them. I know some you guys out there use them so I'm asking for your options. I've got a good set of paddles which are great for the shack, but since I've been taking my rig outdoors alot I could use something small and lighter. Without breaking the bank, what are you guys using? and how much?

Jerry - NR5A - South Dakota

-----  
Date: Wed, 18 Sep 2002 19:36:14 -0500  
From: "Tim, N9PUZ" <n9puz@arrl.net>  
To: <nr5a@hills.net>,  
Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>

Subject: [135453] Re: Portable Keyer Paddles?  
Message-ID: <200209190027.TAA06228@steel.eosinc.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

On Wed, 18 Sep 2002 18:23:38 -0600, nr5a wrote:

>outdoors alot I could use something small and lighter. Without  
>breaking the bank, what are you guys using? and how much?  
>  
>Jerry - NR5A - South Dakota

Doug's Porta-Paddle is really nice. <http://www.americanmorse.com>

The Palm paddles are reported to be nice too.

Really on a budget? Try the White Rook paddles.

Google will find links to the second two.

Tim, N9PUZ  
<http://www.qsl.net/n9puz>

-----  
Date: Wed, 18 Sep 2002 23:56:15 -0500  
From: "tmyers" <tmyers@academicplanet.com>  
To: <wr3i@earthlink.net>,  
      "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [135454] Re: Roof Tower Thoughts?  
Message-ID: <008701c25f98\$e3cfa860\$0100a8c0@newkid>  
MIME-Version: 1.0  
Content-Type: text/plain;  
      charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I have a three foot one on the roof, but I added additional bracing in the attic and I just have VHF beams on it.

I know of one ham who but a three foot section of tower inside the attic and went thru the roof with a roof jack and placed a water deflector on the mast above the roof. He has a Force-12 CS-3 on it. He can work on the antenna from the roof and on the rotor in the attic. He has a two story house and the combo gives him a little over 30 feet for the beam. It seems to work well for him.

Just some thoughts from Hurricane country.

KQ5U, Terry  
Spring, Texas

-----  
Date: Wed, 18 Sep 2002 19:13:54 -0600  
From: "Rod N0RC" <rod@n0rc.us>  
To: <n9puz@arrl.net>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>,  
Subject: [135455] Re: Portable Keyer Paddles?  
Message-ID: <00be01c25f79\$d33ff1e0\$6401a8c0@greyrock>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

And don't forget the:

Paddlette [www.paddlette.com](http://www.paddlette.com)

and

Code Warrior (commercial version of the NorCal Paddle) [www.vibroplex.com](http://www.vibroplex.com)

73, Rod N0RC

----- Original Message -----

From: "Tim, N9PUZ" <n9puz@arrl.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Wednesday, September 18, 2002 6:36 PM  
Subject: Re: Portable Keyer Paddles?

On Wed, 18 Sep 2002 18:23:38 -0600, nr5a wrote:

>outdoors alot I could use something small and lighter. Without  
>breaking the bank, what are you guys using? and how much?  
>  
>Jerry - NR5A - South Dakota

Doug's Porta-Paddle is really nice. <http://www.americanmorse.com>

The Palm paddles are reported to be nice too.



Really on a budget? Try the White Rook paddles.

-----  
Date: Wed, 18 Sep 2002 21:26:19 -0400  
From: Kenneth Hoglund <hoglund@wfu.edu>  
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135456] OT: Ramsey FR-146  
Message-ID: <3D8927BB.798D772E@wfu.edu>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

PSE excuse the bandwidth, but I would appreciate hearing from anyone with experience with the Ramsey FR-146, off-list of course!

TNX  
73,  
Ken KG4FGC

-----  
Date: Wed, 18 Sep 2002 20:26:45 -0500  
From: "Stuart Rohre" <rohre@arlut.utexas.edu>  
To: "w2wurjj" <w2wurjj@verizon.net>, <qrp-l@lehigh.edu>  
Subject: [135457] Aluminum vs. magnetic materials and noble metals  
Message-ID: <00c601c25f7b\$9dbfbd00\$4e100a0a@rohredt2000>

Review, there are magnetic materials that shield the H field, like Mu metal, iron and steel, and there are two other classes, paramagnetic and diamagnetic. Aluminum falls into one of those, for having a weak effect on magnetic fields. However, it is mostly an E (electric) field shield. BTW, if you want a good review of this, most of the Half Price Books chain have various editions of Bernard Grob's "BASIC ELECTRONICS" a great text.

Thus, if you were to rank the effective magnetic shields, the two types of Mu Metal are at the top, then going toward lesser shields, you have the steel and iron, then you go on down among ferrous, (iron bearing) alloys to the other metals including aluminum as slight effect on magnetic field. Copper and brass I think are just electric field shields. But I will have to drag out my Grob to see.

Now, the down side of Mu Metals, as I stated is the fabrication and

fastening can alter, (impair) their magnetic effects. Of course, if you drop an iron shield plate on the floor from table height you will impart to it, a self magnetization from the strength of the Earth's field. (400 mGauss about) (I know, I am in the old system of units). Thus when working with magnetic shield materials, you have to be careful how you heat them, or work them as to mechanical shock.

Collins likely considered some of the issues and economics made aluminum more attractive than their earlier use of steel in rig construction. Remember, as Collins came to the fore, aluminum use got a huge impetus from all the aircraft building going on in WW2. There was not much aluminum in aircraft until the 1930's, except for Lindberg's plane. As late as 1940, Imperial Airways of Brittain was still flying a large passenger Bi Plane, that only had aluminum skin on the fuselage, but fabric covered wings and tail; and this was used on long international routes from India to London!

But use of aluminum in manufacturing took a leap with the building of huge hydroelectric projects such as Hoover dam, and TVA which made cheaper electricity available for refining aluminum. Thus ALCOA (Aluminum Corp. of America) arose in TN. and Kaiser Aluminum in CA. became prominent makers of aluminum. Radio chassis in 1930's were steel, and moved to aluminum in WW2 and after. A few steel chassis were still around, Drake copper plated theirs, and had a distinctive radio in their first ham receiver in the 50's.

Cost factors probably rule out gold and silver until fairly recent years. Gold is too soft in pure forms, and costly, and Silver was costly, although widely used in plated form at least in WW2 microwave and VHF gear. There were milled out VFO circuits in Racal receivers from U.K. mid 50's. There probably were others in the WW2 surplus radios. A good VFO needs to be rigid to not have vibrations modulate the components. Most tin plated steel cans are pretty rigid compared to aluminum mini boxes. A tin can was described holding a precision oscillator that was used for Moonbounce or similar, back in 50's QST. It was buried some foot or so deep in the back yard to keep the temperature constant and was a poor ham's oven stabilized oscillator.

Now should this contest allow us to literally "Pot" our VFO in clay or sandy loam?

72, Stuart K5KVH

-----  
Date: Wed, 18 Sep 2002 18:30:22 -0700

From: "blinn" <blinn@smgazette.com>

To: <nrx5a@hills.net>,

"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [135458] Re: Portable Keyer Paddles?  
Message-ID: <00dd01c25f7c\$205dd940\$708aa242@blinn>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Jerry,

Here's a picture of my favorite, small home-brew and very portable paddle. Have you considered building your own? I've built several this year using 3/4"x1/2" aluminum angle for each side support. I'm using brass screws and a thin 1/4" brass strip from the hobby shop for the paddle arms. Finger pieces are sometimes made from guitar picks, plastic lids, and most recently 1/8" Plexiglas. I built the one pictured a couple of years ago and used an old relay contact assembly for the contacts and a #6 brass machine screw for the common center contact. The side blocks are the ends of some old terminal blocks in the junk box.

<http://www.qsl.net/wa7tqk/PaddleP8080001.jpg>

Bill - WA7TQK

---

Outgoing mail is certified Virus Free.  
Checked by AVG anti-virus system (<http://www.grisoft.com>).  
Version: 6.0.381 / Virus Database: 214 - Release Date: 8/2/02

--

-----

Date: Wed, 18 Sep 2002 21:41:15 -0400  
From: John Farler <jfarler@peoplepc.com>  
To: qrp-l <qrp-l@lehigh.edu>  
Subject: [135459] Re: Used EZ-Hang or Equivalent Device  
Message-ID: <3D892B3B.87D4C9D@peoplepc.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I've tried several methods to get antennas through and over trees. One I discovered recently seems to work well. I tried to cast a big sinker (2 oz) with a fishing rod and

spining reel, but the rod was too limber  
to accurately cast the heavy weight.

I took the end section off the two section rod and  
just used the short bottom section with its single  
eye. This works much better. I also found  
an old spark plug from the lawn mower in  
the tool box, and tied the line around the  
electrode at the threaded end, and wrapped  
tape around the plug and mono line  
so it came out under the tape at the  
end where the spark plug wire attaches.  
This way, the cone shaped plug can be  
pulled back through the limbs more easily,  
should you miscast and is pretty  
streamlined. The plug is heavy  
enough to pull the monofilament down to  
attach the heavier line.

Don't forget plastic clothes line as a  
support, as it is inexpensive and slick,  
and won't snag as easliy as some lines.  
It's strong and holds up well  
in the sun, also. White color shows  
up well, though. Try not to get the  
type with the metal center.

73/72, John, K4AVX  
jfarler@peoplepc.com

-----  
Date: Wed, 18 Sep 2002 21:44:19 -0400  
From: Chuck Ludinsky <cjl@mitre.org>  
To: neqrp@jonal.net, qrp-l@lehigh.edu  
Subject: [135460] NEQRP CW Net, Thursday, 19 Sept 02, 08:30 PM EST, 3.565 MHz  
Message-ID: <3D892BF3.3080206@mitre.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Transfer-Encoding: 7bit

The New England QRP Club's 80M CW net, WQ1RP, will meet again on  
Thursday, 19 September 2002, at 8:30 PM EDT (00:30Z, 20 Sep 02)  
on or near 3.565 MHz. All hams are welcome. Net control operator  
will be John, K1RC operating from Dracut, MA.

Another typical 80M evening last week, with a fair amount of QRN,  
and some QSB on the more distant stations. We had a relatively

light turnout (compared to last week), but still an enjoyable net.  
Thanks to everyone for QNI'ing:

AA1MY	Seab	Bethel, ME	599
WA1JXR	Greg	Lancaster, MA	599
AB8DF	Ed	Waterford, MI	349/QSB
W1CFI	Paul	Falmouth, MA	579
W2SH/1	Chas	Sandwich, NH	599
K1CL	Chuck	Chelmsford, MA	net op

Please stop by this week and say hello to John and everyone on the net. And don't forget -- Saturday is QRP Afield!

72 DE K1CL,  
Chuck

-----  
Date: Wed, 18 Sep 2002 20:44:12 -0500  
From: "Stuart Rohre" <rohre@arlut.utexas.edu>  
To: <bowerm@ix.netcom.com>, <qrp-l@lehigh.edu>  
Subject: [135461] MFJ is source for remaining Curtis keyer chips  
Message-ID: <00ea01c25f7e\$0dd499b0\$4e100a0a@rohredt2000>

The ONLY source I have heard.  
Might give them an email.  
72, Stuart K5KVH

-----  
Date: Wed, 18 Sep 2002 21:54:55 -0400  
From: Howard Friedman <haf47@juno.com>  
To: qrp-l@lehigh.edu  
Subject: [135462] Fence wire for antennas??  
Message-ID: <20020918.215456.-424445.2.haf47@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hello to the group,

I just picked up a spool of 2500 feet of steel electric fence wire for \$4 at a garage sale, and was pretty happy about finding this item for a future rhombic project. Really would like to make one of those antennas before I move to that hamshack in the sky.

After discussing this with a ham friend I am left with the impression that using this steel wire not only might end the world as we know it, but will forever label me as the wrong end of a horse.

Has anyone used this type of wire for an antenna? Would you care to share the results with me?

I have made a pretty fair search on the web for info about this wire and antennas and cannot find any references...any web site addresses would be appreciated.

Thanks in advance for any info.

73, Howard WA2AFD  
haf47@juno.com

---

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Date: Wed, 18 Sep 2002 22:00:24 -0400

From: "Mike Yetsko" <myetsko@insydesw.com>

To: <haf47@juno.com>,

"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>

Subject: [135463] Re: Fence wire for antennas??

Message-ID: <022901c25f80\$54dcbc00\$0300a8c0@charter.net>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Hey, if it works, it works. I'm sick of the people who have the attitude that if it doesn't work as well as 'they' want it to, it's not worth having.

That said, will it work?

Sure, but so will wet kite string. To different degrees.

It's not the optimum wire to use, and I would never use it as my wire of choice. But once you have it, you have it. And it's cheap, so you can use it for things you wouldn't use your expensive copperweld for. Like an 80M rhombic in the treetops.

Mike

----- Original Message -----

From: "Howard Friedman" <haf47@juno.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Wednesday, September 18, 2002 9:54 PM

Subject: Fence wire for antennas??

> Hello to the group,

>

> I just picked up a spool of 2500 feet of steel electric fence wire for \$4

> at a garage sale, and was pretty happy about finding this item for a  
> future rhombic project. Really would like to make one of those antennas  
> before I move to that hamshack in the sky.

>

> After discussing this with a ham friend I am left with the impression  
> that using this steel wire not only might end the world as we know it,  
> but will forever label me as the wrong end of a horse.

>

> Has anyone used this type of wire for an antenna? Would you care to  
share

> the results with me?

>

> I have made a pretty fair search on the web for info about this wire and  
> antennas and cannot find any references...any web site addresses would  
be

> appreciated.

>

> Thanks in advance for any info.

>

> 73, Howard WA2AFD

> haf47@juno.com

-----  
Date: Wed, 18 Sep 2002 21:38:03 -0400

From: "Paul Mills" <quahog@localnet.com>

To: <QRP-L@lehigh.edu>

Subject: [135464] [OT] Antenna farm in movie  
Message-ID: <006101c25f82\$b9d18b20\$d3519942@cybrinjn>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Has anybody seen the movie, "Proof of Life?" In the closing scenes they land their helicopter on a hill above Quito(?) [capital of Ecuador] with a number of antennae, wires, beams and log periodics; there is also what looks like a round horizontal loop. If that hill belongs to a ham, then he's got one heckuva site.

Paul KB1GEJ

-----  
Date: Wed, 18 Sep 2002 19:57:44 -0400  
From: "David B. Sarraf" <david.sarraf@paonline.com>  
To: jwolfgang@arrl.org  
Cc: Steve Blary <steve@eclipsecat.com>, qrp-l@lehigh.edu  
Subject: [135465] Radio Frequency Spectrum Chart Needed  
Message-ID: <3D8912F7.F6A0DB43@paonline.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Dear jwolfgang@arrl.org

I have a copy of the old merit badge book and will scan and mail you a copy of that chart.

It appears to have been furnished by the ARRL. It has their logo and contact info in two different places. You may want to see what they have available. Maybe it's as easy as pulling it down from their website.

Dave Sarraf  
N3NDJ

-----  
Date: Wed, 18 Sep 2002 22:09:23 -0400  
From: Dave Richards <wr3i@earthlink.net>



To: tmyers@academicplanet.com,  
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [135466] Re: Roof Tower Thoughts?  
Message-ID: <5.1.1.6.2.20020918220858.009e81c0@earthlink.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Terry what is a roof jack?

Dave

At 11:56 PM 9/18/2002 -0500, tmyers wrote:

>I have a three foot one on the roof, but I added additional bracing in  
>the attic and I just have VHF beams on it.

>

>I know of one ham who but a three foot section of tower inside the attic  
>and went thru the roof with a roof jack and placed a water deflector on  
>the mast above the roof. He has a Force-12 CS-3 on it. He can work on  
>the antenna from the roof and on the rotor in the attic. He has a two  
>story house and the combo gives him a little over 30 feet for the beam.  
>It seems to work well for him.

>

>Just some thoughts from Hurricane country.

>

>KQ5U, Terry

>Spring, Texas

-----  
Date: Wed, 18 Sep 2002 22:20:46 -0400  
From: "Hugo W. Catta" <hugo@optonline.net>  
To: rohre@arlut.utexas.edu,

Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [135467] Re: MFJ is source for remaining Curtis keyer chips  
Message-ID: <002201c25f83\$2a1af740\$0300a8c0@hugocatt>  
MIME-version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-transfer-encoding: 7BIT

FYI....

If you are looking for the 8044B, don't bother. They have only the "A".  
BTW, I have an 8044A "pull" (just replaced it with a "B" in my FT902DM).  
Wanna trade?... I'll take two diode ring mixers for it, (most any SBL, SRA  
or TUF will do).

72  
Hugo  
AA1XV

----- Original Message -----

From: "Stuart Rohre" <rohre@arlut.utexas.edu>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Wednesday, September 18, 2002 9:44 PM  
Subject: MFJ is source for remaining Curtis keyer chips

> The ONLY source I have heard.  
> Might give them an email.  
> 72, Stuart K5KVH  
>  
>

-----  
Date: Wed, 18 Sep 2002 22:21:38 -0400  
From: "Michael Bower N4NMR" <bowerm@ix.netcom.com>  
To: "Qrp-L" <qrp-l@lehigh.edu>  
Subject: [135468] looking for Curtis Chip 8044  
Message-ID: <ODE0IKLMAJFGCNMOGAGIIEIDCGAA.bowerm@ix.netcom.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

This is a follow-on to my previous question:

Have determined that the chip I need is a Curtis 8044 chip. That's one of the older models.

Anybody out there have one they want to part with?

TIA

Michael N4NMR

-----  
Date: Wed, 18 Sep 2002 22:21:54 -0400  
From: "W2WU" <w2wurjj@verizon.net>  
To: <haf47@juno.com>,  
      "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135469] Fence wire for antennas??  
Message-ID: <003b01c25f83\$62182820\$71c2fea9@w2wu>  
MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

It works!Great for beverage antennas. Tricked everyone as I loaded up the electric fence when on the farm. Watch how its spliced!!! Sure no comparison to the loop, or beam but in a pinch who cares? W2WU  
<snip>

-----  
Date: Wed, 18 Sep 2002 21:40:26 -0500  
From: "Kelly Ellison" <kelman@sofnet.com>  
To: <qrp-1@lehigh.edu>  
Subject: [135470] 12 volt portable power source.  
Message-ID: <001501c25f85\$e9fdab00\$8f32c840@pavilion>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hey guys,

My beloved "Power Source" unit I bought at Target a couple of years ago is not working.

I Checked Target, and don't find the Power Source on the shelf (in the camping section). It is a rechargeable 12 volt source with 2 lighter plugs and variable voltage outputs. Anyone know of a similar unit available?

Don't really care for the "Auto-Type" That are made to jump start your car. Hopefully there is another source for these.

Kelly Ellison - WB0WQS

-----  
Date: Wed, 18 Sep 2002 20:43:15 -0600  
From: "Rod N0RC" <rod@n0rc.us>  
To: <k7qo@earthlink.net>,

"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [135471] Re: Rock Hunting --- Winter of '02 (or '03)  
Message-ID: <011101c25f86\$507e0e10\$6401a8c0@greyrock>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Folks,

Following through on Chunk's idea I prepared a first rev of the  
"Rock-Hunter Registry" it can be seen at:

<http://www.radioactivehams.com/~n0rc/rm/operating/rock-hounds.html>

<http://www.qsl.net/~n0rc/rm/operating/rock-hounds.html> (mirror)

These links are not exposed on the site yet so you must type them as you  
see them.

Send me your ideas for format and content changes. I'll blend the ideas  
together and let folks know when I'm ready-then and only then--will I  
ask for entry submissions.

This is a neat idea Chuck, and a nice compliment to Steve "Melt Solder"  
Weber's, "Rock'en Rock Nite" on Sunday. (see the Rock-Mite files for  
details on that)

73, Rod N0RC  
the "Rock-Mite" files  
<http://www.radioactivehams.com/~n0rc/rm/>  
<http://www.qsl.net/n0rc/rm/> (mirror)

----- Original Message -----

From: "Chuck Adams" <k7qo@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Sent: Tuesday, September 17, 2002 11:05 AM  
Subject: Rock Hunting --- Winter of '02 (or '03)

...

> I'm not saying that Wednesday is a preferential night for looking for  
> Rock-Mites  
> and operators we will call Rock-Hounds (after the fox hunt  
terminology). Maybe  
> N0RC can start a list of Rock-Hounds on his R-M web page so that we

can keep  
> a list next to the rig and listen for those special calls in the wee  
hours  
> of the night.  
>  
...

-----  
Date: Wed, 18 Sep 2002 22:42:59 -0400  
From: "John J. McDonough" <wb8rcr@arrl.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Cc: <nr5a@hills.net>  
Subject: [135472] Re: Portable Keyer Paddles?  
Message-ID: <00ca01c25f86\$4d789640\$010044c0@chartermi.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

For a long time I used a Whiterook for portable work, but I really didn't care for it. But now I have a Palm Paddle and it is lovely. A really nice feature of the Palm is that the paddles retract so they are protected when you aren't using it.

The Whiterook is among the cheapest, however, so it depends on how important the cost is to you.

72/73 de WB8RCR      <http://www.qsl.net/wb8rcr>  
didileydadidah      QRP-L #1446 Code Warriors #35

----- Original Message -----  
From: "nr5a" <nr5a@hills.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Wednesday, September 18, 2002 8:23 PM  
Subject: Portable Keyer Paddles?

> I've never been interested in portable type paddles before so have never  
> paid attention to them. I know some you guys out there use them so I'm  
> asking for your options. I've got a good set of paddles which are great  
for  
> the shack, but since I've been taking my rig outdoors alot I could use  
> something small and lighter. Without breaking the bank, what are you guys  
> using? and how much?  
>

> Jerry - NR5A - South Dakota  
>

-----  
Date: Wed, 18 Sep 2002 21:51:25 -0500  
From: Dave Hottell <hottell@gulftel.com>  
To: haf47@juno.com,  
    "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135473] Re: Fence wire for antennas??  
Message-ID: <3.0.6.32.20020918215125.00f3c210@pop.gulftel.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Howard,

I have never used steel wire for an antenna, but refer to page 2-16 of "Stealth Amateur Radio" where the author, NT0Z, describes his college antenna -- "100' of 28 gauge steel 'picture hanging' wire". He used it as an inverted L with no ground radials (-5dB or so for that!) but worked 40 some states and 30 some DXCC entries. All on 1W from a Heath HW-8. He says things really picked up when he upgraded to a Ten-Tec Argonaut!

Give it a try, sounds to me like it ought to work.

73,  
Dave  
AB9CA

At 09:54 PM 9/18/02 -0400, Howard Friedman wrote:

>Hello to the group,

>

>I just picked up a spool of 2500 feet of steel electric fence wire for \$4  
>at a garage sale, and was pretty happy about finding this item for a  
>future rhombic project. Really would like to make one of those antennas  
>before I move to that hamshack in the sky.

>

>After discussing this with a ham friend I am left with the impression  
>that using this steel wire not only might end the world as we know it,  
>but will forever label me as the wrong end of a horse.

>

>Has anyone used this type of wire for an antenna? Would you care to share  
>the results with me?

>

>I have made a pretty fair search on the web for info about this wire and

>antennas and cannot find any references...any web site addresses would be  
>appreciated.

>

>Thanks in advance for any info.

>

>73, Howard WA2AFD

>haf47@juno.com

>

>

>-----  
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>

-----  
Date: Wed, 18 Sep 2002 21:51:30 -0500

From: Jim Crooke <crooke@prodigy.net>

To: quahog@localnet.com,

"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>

Subject: [135474] Re: [OT] Antenna farm in movie

Message-ID: <5.1.0.14.0.20020918214551.00a62150@pop3.norton.antivirus>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

At 21:38 9/18/2002 -0400, Paul Mills wrote:

>Has anybody seen the movie, "Proof of Life?" In the closing  
>scenes they land their helicopter on a hill above Quito(?)  
>[capital of Equador] with a number of antennae, wires, beams and  
>log periodics; there is also what looks like a round horizontal  
>loop. If that hill belongs to a ham, then he's got one heckuva  
>site.

My wife rented it the other night and not being the Meg Ryan fan, I didn't watch much of it. I did come in the room at the end of the movie to see if she liked it and could tell it was a movie she liked. I sat down when the helicopter was approaching the hill and just said WOW! I got this really snide look from one who had seen a heartwarming love story and here I was drooling over all the wire in the air. I would love to know what type of installation that was.

73 es oo's de Jim KJ0C

Healer of Brachycephalics and other fine looking creatures in Springfield, MO

FP # -108 and semi-official veterinarian of the Flying Pig QRP Club

PITA # 2 SOC # 37

-----  
Date: Wed, 18 Sep 2002 19:57:31 -0700  
From: George Fremin III - K5TR <geoiiii@kkn.net>  
To: Jim Crooke <crooke@prodigy.net>  
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [135475] Re: [OT] Antenna farm in movie  
Message-ID: <20020919025731.GA32633@loja.kkn.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Disposition: inline

On Wed, Sep 18, 2002 at 09:51:30PM -0500, Jim Crooke wrote:

> At 21:38 9/18/2002 -0400, Paul Mills wrote:  
> >Has anybody seen the movie, "Proof of Life?" In the closing  
> >scenes they land their helicopter on a hill above Quito(?)  
> >[capital of Equador] with a number of antennae, wires, beams and  
> >log periodics; there is also what looks like a round horizontal  
> >loop. If that hill belongs to a ham, then he's got one heckuva  
> >site.  
>  
> drooling over all the wire in the air. I would love to know what type of  
> installation that was.  
>

HCJB

<http://www.kkn.net/gallery/hcjb/hc10>

and

<http://www.kkn.net/gallery/hcjb>

it is QR00

<http://www.kkn.net/gallery/hcjb?&page=2>

--  
George Fremin III - K5TR  
geoiiii@kkn.net  
<http://www.kkn.net/~k5tr>



-----  
Date: Wed, 18 Sep 2002 22:46:32 +0000  
From: "rmcnelly@cox.net" <rmcnelly@cox.net>  
To: <kelman@sofnet.com>,  
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135476] Re: 12 volt portable power source.  
Message-ID: <B9AEB2C8.444C0%rmcnelly@cox.net>  
Mime-version: 1.0  
Content-type: text/plain; charset="US-ASCII"  
Content-transfer-encoding: 7bit

Kelly if you open the case, it probably has two 6v 4AH Gell Cells wired in parallel. I replaced mine with a 12v 7AH Gell Cell, dropped right in.

72/73,

--Rick, KE4IZH  
K2#663/Sierra  
'93 ST1100  
STOC#3210  
'83 GL650i  
Chesapeake, Va  
> My beloved "Power Source" unit I bought at Target a couple of years ago is  
> not working.  
>  
> I Checked Target, and don't find the Power Source on the shelf (in the  
> camping section). It is a rechargeable 12 volt  
> source with 2 lighter plugs and variable voltage outputs. Anyone know of a  
> similar unit available?  
>  
> Don't really care for the "Auto-Type" That are made to jump start your car.  
> Hopefully there is another source for these.  
>  
> Kelly Ellison - WB0WQS

-----  
Date: Thu, 19 Sep 2002 00:05:40 -0400  
From: Tom Feeny <tfeeny@comcast.net>  
To: \*QRP-L <qrp-l@lehigh.edu>  
Subject: [135477] Re: [OT] Antenna farm in movie  
Message-ID: <003d01c25f91\$d34f9560\$865d2044@waldlk01.mi.comcast.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-transfer-encoding: 7BIT

> > I would love to know what type of  
> > installation that was.

> HCJB

Your'e probably right. If it is above Quito it's HCJB.  
Where the cubical quad originated. Lotsa watts.  
Not QRP.  
Tom

-----  
Date: Wed, 18 Sep 2002 23:20:11 -0500  
From: John Seboldt <k0jd-1@seboldt.net>  
To: qrp-1@lehigh.edu  
Subject: [135478] RE: Etchant Resist  
Message-ID: <5.1.0.14.0.20020918231201.00a00160@seboldt.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Nail polish has been my favorite for large areas of manually-done boards. I have also been known to use mylar package tape, and carefully cutting to create the etched pattern.

Photo etching is more my choice now. My toner-transfer work has not turned out too well, though my R2 receiver board was an early attempt that still works acceptably well.

The problem for me was that I have this whole supply of nice cheap hamfest PC board, and how to photo-sensitize it. My links to spray-on photo resist are at <http://www.seboldt.net/k0jd/ideas.html> -- positive and negative resist available. Takes some work to get a nice coating, but the frugal in me is satisfied.

Transparency film on an inkjet printer has worked pretty well for me - preferably printed twice, after time for the ink to dry.

John K0JD

-----  
Date: Thu, 19 Sep 2002 00:22:58 -0500

From: "David Bixler" <qrp@netins.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135479] Four State QRP Group "Ham-Out" This Weekend  
Message-ID: <AJEGIOJMJJOB0EKJLHBLIEDKCAAA.qrp@netins.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hello gang:

The Four State QRP Group will have a "Ham-Out" this coming weekend, September 21 and 22 at the Twin Bridges state park in northeast Oklahoma.

What is a "Ham-Out" you ask? Well, it is a combination cookout, camp-out, swap-meet, club meeting and QRP field day, all rolled into one fun-filled weekend.

Since this is both the 6 month anniversary of FSQRP and the QRP Afield contest, what better weekend for a "Ham-Out"?

Details are on the group web site at:

<http://www.w0ch.com/fsqrp/index.htm>

All QRP'ers are invited to drop in for some outdoor fun. This is going to be a blast!

72, Dave

David Bixler                W0CH  
Seneca, Missouri  
QRP Web Site:            <http://w0ch.com>  
Four State QRP Group:   <http://w0ch.com/fsqrp>

QRP: Little Radios, Big Fun!

-----  
Date: Thu, 19 Sep 2002 1:10:27 -0500  
From: "Doc Lindsey K0EVZ" <dock0evz@earthlink.net>  
To: "qrp-l reflector" <qrp-l@lehigh.edu>  
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>  
Subject: [135480] WTB = Yaesu FT100D

Message-ID: <412002941961027236@earthlink.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII

Gang:

This may be a wild good chase, but I am looking for a Yaesu FT100D. Very good condition, including CW filter. Have a possible trade of some QRP gear for one. Anyone have one available?

73,  
--Doc/K0EVZ

-----  
Date: Thu, 19 Sep 2002 02:40:57 -0400 (EDT)  
From: "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>  
To: qrp-l <qrp-l@lehigh.edu>, <eax@w3eax.umd.edu>,  
Laurel ARC <larc-l@webtrek.com>, <w7pxl@eGroups.com>,  
Subject: [135481] WORTH READING - N7JI selling almost everything - THP-750, keys, paddles, keyers, VHF, QRP, HF, filters, service monitor, HTs, batteries,  
Message-ID: <Pine.LNX.4.44.0209190225540.20020-100000@w3eax.umd.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

It's finally happened - cleaning up the garage, choosing ONLY the radio equipment I absolutely HAVE to keep, and selling the rest. Less radios, more baby stuff. Those with kids understand what I'm saying...reprioritization...

If you ever visited my house in Maryland, you saw "the closet." This basically represents EVERYTHING I had in my closet full of radio stuff.

No, I'm not dying (at least, my doctors don't think so). I'm just straightening and simplifying. And no, I'm not leaving the hobby - I'm keeping much of my test equipment and antenna-construction stuff, plus an HT, my OMNI V, a few QRP rigs, and a small assortment of iambic paddles.

All prices are negotiable - package deals and offers considered. Trades possible but obviously not of first priority.

## TEST EQUIPMENT

Ramsey COM3 - say what you will about Ramsey, but it's a decent service monitor for the price. Have used it to align many a radio. 1-1000 MHz, variable modulation, case/handle and pager decode options. 120 VAC and also has internal NiCd battery. 18 lbs, "portable."

Measures deviation & freq., RF/audio freq., and generates AM/FM with and without 1 kHz tone of variable amplitude. Rx AM & FM and outputs audio to internal speaker. \$1600

## HF STUFF (QRP and filters and otherwise)

Ten-Tec filters - 218, 282, 288, 288 (yes, two 288s).  
\$70 ea.

Ten-Tec Scout module, 17m. \$25

Tokyo Hy-Power HTP HT-750 40/15/6m SSB/CW handheld. Excellent condition w/box, manual. Low power consumption, ability to run off NiCd batteries, noise blanker; uses Icom-compatible speaker-mics. Does NOT include whip antenna. Used for 1st place, 2001 SSB Sweeps, OR section, QRP category. Digital tuning. Good front end.  
\$525

Radio Shack HTX-100 10m SSB/CW mobile, good cond. w/box  
\$125

Oak Hills Research "Classic," 20/40m QRP CW rig. Some scrapes but works well. Electronic keyer installed. W/manual. \$155

Ten-Tec 1340, great phys. cond, not quite working.  
\$70

Radio Shack DX-394 desktop SW receiver. Has BFO, digital tuning, several timers, lots of other features. Excellent condition.  
\$170

## CODE STUFF

Heathkit HD1416 code oscillator	\$16	
Ham Radio Center HAM KEYER HK5A	\$50	
MFJ 422B piggyback keyer for Bencher paddle		\$50
Vectronics CK200 electronic keyer	\$50	
MFJ-407B deluxe electronic keyer (Curtis 8044)		\$50
MFJ-557 code oscillator w/key	\$20	

Vibroplex Brass Racer w/Curtis 8044 keyer EK-1, triangle  
\$125

Vibroplex Brass Racer, no keyer, triangle	\$100
Whiterook MK-33 single lever paddle	\$12
Paddlette BP-1 iambic paddle backpacker w/case	\$35
Paddlette MK-1 iambic paddle	\$40
Ten-Tec 606 single lever paddle	\$40
Ten-Tec 607 single lever paddle	\$40
Nye Viking Master Key Straight Key	\$50
J-38 knockoff w/knee mount	\$25
Jones Iambic paddle	offers considered
Kent twin paddle (iambic)	offers considered
Ham Radio Center HAM KEY Iambic paddle	offers considered
Ham Radio Center HAM KEY Straight key	offers considered

#### HF TUNERS & WATTMETERS & OTHER STUFF

MFJ 901B 200w 160-10m tuner. No meters, very compact.  
\$55

Nye Viking Lowpass filter (cylindrical) - HF.	\$25
B&W FL-6/100 Lowpass for 6m.	\$20
Drake TV-42-LP lowpass filter. VERY sturdy.	\$30
BUD LF601A adjustable lowpass (52-72 ohms) - have 2, one with box. make offer!	

JPS ANC-4 noise cancelling unit. Cancels out noise on ANTENNA side  
thus preventing it from ever reaching RX. Excellent cond w/sense  
antenna, box, and manual. Tried for mobile use - worked great  
but found I had to readjust every time the car moved :)  
\$140.

Autek WM-1 computing wattmeter PEP/avg computing wattmeter. Unit is in  
near-perfect condition physically but I seem to remember something about  
it not working last time I tried it a year ago. Sells for \$133 new,  
asking \$85 as no wattmeter is that hard to fix...I just don't have the  
time to think about it right now. \$85

Radio Shack digital wattmeter, MTA-20. Great cond, w/box.  
Good to 1w (use one myself for QRP) and up to 2kW. Part #21-527. \$55

#### VHF radios and accessories

Alinco DR-610 2m/440 mobile. Excellent condition w/box, manual,  
memory board and tone squelch board. Remote control functions  
and way too many features to list. Lightly used. \$360

TWO Radio Shack HTX-212 50w 2m mobile FM, excellent condition,  
in box w/manual, mic. \$120 ea.

ONE Radio Shack HTX-212 50w 2m mobile w/mic. I marked it as NG  
and don't remember why. Anyway, time to sell! \$75

TWO Alinco DJ-F1T 2m HTs w/extended RX range. Good condition. Comes  
w/three batteries, two chargers, one box, one manual, speaker-mic,  
car adaptor, two antennas (one bent but working). \$225 for all

TWO Yaesu FT-50R/FTT-12 handhelds (2m/440 MHz) w/box, manuals.  
Wideband RX, mil-spec construction, digital voice recorder,  
in excellent condition with the following:

- NC-50 dual slot rapid charger w/CA-14 sleeves
- Periphex NC-601 rapid charger
- PA-17 battery extender
- SEVEN (yes, 7) FNB-41 batteries
- THREE FNB-40 batteries
- ONE FNB-49 battery
- ONE FNB-47 (high capacity) battery
- ONE FNB-15 battery case
- TWO MH-34 speaker mics
- ONE EDC-34 filtered power cord
- ADMS-1D programming software and cable

This would cost over \$1100 if purchased today (and it can be at any  
major ham retailer!). Offers considered on parts or entire package.

Yaesu VX-1R micro handheld - 2m/440 with wideband rx. Box, manual,  
lithium-ion battery. Excellent shape - antenna is bent (it happens). \$100

Yaesu FT-470 2m/440 HT. Excellent condition, dual receive, tone  
encode/decode. With:

- PA-6 car adaptor (3 of them!)
- MH18A2B speaker mic
- 7.2v 1200 mAh battery
- FBA-17 battery case (2)
- NC-28B charger (2)
- 12v 600 mAh battery
- Novex BC20 5-hour drop-in charger, w/box

Sell entire package for \$255.

THREE Radio Shack HTX-202 2m HTs and ONE ICOM 2AT 2m thumbwheel HT.  
Comes with:

Icom BC-35 drop-in rapid charger  
 W&W 8.4v 1400 mAh battery  
 Icom DC-1  
 Icom speaker mic  
 TWO Radio Shack alkaline battery cases  
 TWO Radio Shack NiCd batteries  
 Icom BP-3

Asking \$285 for all of the above. Yes, four radios. If you want fewer, let me know and I'll consider breaking it apart.

Radio Shack PRO-2039 200 channel base scanner, cell blocked.  
 Exc. cond. in box. \$150

Radio Shack Pro-51 200 channel handheld scanner, cell blocked.  
 Exc. condition, in box. \$150

Larsen AD2/70 200w PEP duplexer for 2m/440 MHz.  
 \$30

SY25D 2m/440 duplexer.	\$22
Comet CF360 duplexer - HF/49-470 MHz	\$45
Alinco EDC-36 cigarette lighter cable	mk offer
Alinco EMS-8 speaker/mic for DJ-580T	mk offer
Alinco battery for DJ-580T	mk offer
Icom CP-13 filtered power cord	mk offer
Alinco EJ-19U memory unit for DR-610T	mk offer
Yaesu FTS-8 tone board for FT-736R	mk offer
Maldol AH-209 stubby 2m/440 antenna (BNC)	mk offer
Kenwood 2m/440 MHz BNC antenna	mk offer
Alinco 2m/440 MHz BNC antenna	mk offer
Generic Japanese 2m/440 MHz BNC antenna (2)	mk offer
Comet SMA3 2m/440 SMA antenna (3)	\$25 ea

#### Accessories

MFJ-432 Voice keyer, excellent cond w/box & manual. \$120 new.  
 Infrequently used (operate mostly CW) \$90  
 Radio Shack DSP-40 DSP/speaker unit. 5w audio amp, w/box. (2)  
 \$35 ea  
 Alinco EDS-4 remote kit for DX-70T, in box. \$30  
 Alinco EDS-5 8-pin mic extension cable, in box (2) \$25 ea  
 JPS NIR-10 digital audio processor, ex. cond. \$125  
 Auttek QF-1A audio filter, very good shape (2) \$45 ea

VHF amps



Non-working Radio Shack HTA20, don't remember why not wkg.

\$20

Mirage B23 30w 2m amp, on/off switch installed, VG cond.

\$55

RF Concepts VHF-1-60 2m HT amplifier, 1w in gives 60w out.

\$130

(designed for FM but who knows, modifiable for class AB?)

Ahh, daddyhood. So much radio stuff, so little time to use it.  
I am exposing Hannah to lots of CW (as time permits) and she actually  
was on my lap (asleep) during Field Day at age 5 weeks.

Anyway, I've identified the bare essentials and am keeping the pieces  
I absolutely MUST have on hand.

Offers and package deals considered.

HAPPY SHOPPING! Seriously, feel free to make offers!

--

Scott Rosenfeld ARS N7JI

541-684-9970 Eugene, OR Land o' much rain

If you find me on the air, I'm probably in my car

ham@w3eax.umd.edu <http://w3eax.umd.edu/~ham>

-----  
Date: Thu, 19 Sep 2002 04:21:03 -0400 (EDT)  
From: George Gingell <k3tks@u1.abs.net>  
To: QRP List <qrp-l@lehigh.edu>  
Subject: [135482] Re: Ten-Tec ARG0 509, etc.  
Message-ID: <20020919040342.H18571-100000@u1.abs.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Nice Story Dave.

I also have my Original QRP Rig Downstairs in the Library. I purchased it  
"Brand Spanking New" at Gaithersburg, MD Hamfest from "Maryland Radio  
Center" Serial # 509-4109. I plan to have it buried with me. :^}

I paid \$ 305.00 Cash for it and I must say that I got every cent of that  
and more out of the old gal.

I also had a 515 with Power Supply and 405 Linear. I bought that as a package deal from a QRP'er in WVA right after he sent it to the factory for service. It was my Collector set up. I never even fired it up until just before I sold it last year. Some times paying the bills are more important than qrp? Gee that almost sounds like blasphemy?

I was just thinking, that 509 likely holds the World Record for the most QRP Net Check-in's. Several per week for at least 20 or more years.

Something over 1500 QNI as I recall.

I had a Homebrew Audio Filter for about 100 hz and the QF1-A and a pair of Old WE Hi-Z Phones (Now 60+ years old).

Used an old CMOS keyer ??-144 and The Bencher paddles. Also a J-38 for Back up :^} Later the CW Keyboard was very helpful with the nets and contesting.

Don't even ask about the price, She is not for sale... Neither 509 or XYL :^}

QRPp Dx Tu, (C) 2002 K3TKS

Sir George, The First :^}

72 ES QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net  
Former QRP A.R.C.I. Net Manager and CURRENT Board of Director Member.  
Gingell & Company, Ltd. Small Business Telephone Systems, Handyman Services,  
Commercial & Residential Locksmith Services (301) 572-6789 Office & Fax  
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117  
Maryland Milliwatt Club QRP Reference Library, (301) 572-6789 IQRR #1,  
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -  
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

Collector of Quartz Crystals and Telegraph Keys.

Maryland Milliwatt Club QRP Reference Library, & I.Q.S.F. Donations Accepted.

RU-QRP? Club Representative, U.S. Treasurer & Founder of I.Q.S.F.

Yes, We take "PayPal" to "George Gingell" <K3TKS@abs.net>

"72" = "Wishing You Good QRP" (C) 1991 Oleg Borodin, RV3GM

-----  
Date: Thu, 19 Sep 2002 03:26:14 -0500  
From: Karl Kanalz <kkanalz@gcecisp.com>  
To: "'crooke@prodigy.net'" <crooke@prodigy.net>,  
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135483] RE: [OT] Quito, Ecuador  
Message-ID: <01C25F8C.5636FE60@KKANALZ>

That scene defintely wasn't really in Quito, Ecuador, Jim!

Been there, and there's no antenna farm like that ANYWHERE in Ecuador!

Karl K - W8TIF  
McKinney, Texas

-----Original Message-----

From: Jim Crooke [SMTP:crooke@prodigy.net]  
Sent: Wednesday, September 18, 2002 9:52 PM  
To: Low Power Amateur Radio Discussion  
Subject: Re: [OT] Antenna farm in movie

My wife rented it the other night and not being the Meg Ryan fan, I didn't watch much of it. I did come in the room at the end of the movie to see if she liked it and could tell it was a movie she liked. I sat down when the helicopter was approaching the hill and just said WOW! I got this really snide look from one who had seen a heartwarming love story and here I was drooling over all the wire in the air. I would love to know what type of installation that was.

73 es oo's de Jim KJ0C  
Healer of Brachycephalics and other fine looking creatures in Springfield, MO  
FP # -108 and semi-official veterinarian of the Flying Pig QRP Club  
PITA # 2 SOC # 37

-----  
Date: Thu, 19 Sep 2002 04:27:06 -0400 (EDT)  
From: George Gingell <k3tks@u1.abs.net>  
To: QRP List <qrp-l@lehigh.edu>  
Cc: Mike N4NMR <bowerm@ix.netcom.com>

Subject: [135484] Re: Curtis Keyer Chips  
Message-ID: <20020919042118.D18571-100000@u1.abs.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Mike,

I suspect that you may be out of luck finding an unused Curtis Keyer Chip.

M.F.J. may be able to provide their version, but it is not a direct replacement for the older versions.

Heck, I may have one buried deep in the Archives somewhere. It would likely take an Archealogist to locate it. I definately recall a Curtis Keyer PCB Kit? In the QRPp Museum/Library.

Maybe one day it will turn up again.

QRPp Dx Tu, (C) 2002 K3TKS

Sir George, The First :^}

72 ES QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net  
Former QRP A.R.C.I. Net Manager and CURRENT Board of Director Member.  
Gingell & Company, Ltd. Small Business Telephone Systems, Handyman Services,  
Commercial & Residential Locksmith Services (301) 572-6789 Office & Fax  
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117  
Maryland Milliwatt Club QRP Reference Library, (301) 572-6789 IQRR #1,  
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -  
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

Collector of Quartz Crystals and Telegraph Keys.

Maryland Milliwatt Club QRP Reference Library, & I.Q.S.F. Donations Accepted.

RU-QRP? Club Representative, U.S. Treasurer & Founder of I.Q.S.F.

Yes, We take "PayPal" to "George Gingell" <K3TKS@abs.net>

"72" = "Wishing You Good QRP" (C) 1991 Oleg Borodin, RV3GM

-----

Date: Thu, 19 Sep 2002 05:32:06 -0400 (EDT)  
From: George Gingell <k3tks@u1.abs.net>  
To: QRP List <qrp-l@lehigh.edu>  
Subject: [135485] Re; EZ-Hang and Other not so easy methods  
Message-ID: <20020919042713.R18571-100000@u1.abs.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Well gang, it looks like we are winding down on the Antenna Launching Dialog, so I thought that I would add a few comments as well.

I think I must have used nearly every method known to man over the past 40 years of hanging "Copper and Tin Spyder Webs in the Trees".

My trees are Pin Oaks and Hickory's that are about 65 feet tall. In the earlier days there were lots more of them along with lots of other types beyond my property line in what was then known as "Calverton Woods".

There are many ways to use and miss-use the Ez-Hang and other methods of getting that wire into the sky.

I recall my first Bad Experience using the Slingshot (WHAM-0) and Fishing line and Reel. I was using a 2 or 3 oz. bank sinker and about #12 monofilament line. I did not have the sinker balanced in the pouch correctly and it came out with a lot of wobble went out 30-40 feet hit a snag and then me! Ouch! Needless to say I went in and got the Telco Hardhat and Safety Glasses before continuing.

Gradually, I learned that an open face reel was not a good idea. The Zebco 202 became the Classic for Antenna Tree Fishing. Since that was my Son's fishing pole, I usually added a Gutter Spike and some Black Tape to the handle and stuck it in the ground behind me.

Later, I found that I had much better luck with a length of #80 monofilament line laid out on the ground zigzag fashion with this attached to a length of Daycron rope and sometimes this was tied onto a 100 Foot 1/2" Poly rope. The 50 foot #80 line was the get it over the top section.

The Daycron 3/16" line was the Antenna Support. The 1/2" Yellow Poly was the Bring it back down section.

I have had to tie the 1/2 poly to the other end of the daycron and make a loop to work it thru the branches and unsnag it here and there.

I finally settled on a 2 oz bank sinker as the most snag free.

I even had to tie a couple of bricks on the line to get it to unsnag and

return.

Some use a short length of #8-12 test as a leader, that way you can break it and start over. Letting the sinker fall free?

Later I discovered that I was much better at Archery than with a Slingshot. The trouble with the slingshot and sinker is that It will not carry a long line up that high and still have enough pull to get the line back to earth. I have several "Special Tools" to reach up and snag the dangling line and sinkers. A 25 ft pvc and Electric Conduit helper. and a 20 ft Black Widow with a hook.

I have other special tools as well. Tennis Balls with The 3 Oz Sinker inside (just make a small slit and push in the line and sinker.

Only good for lower heights. I will never make the Baseball team.

I also have a Golf Ball with a Screw eye in it. Golf is not my game either.

The all time favorite here is the "K3TKS Antenna Arrow" it is a 36" Aluminum Hunting Arrow which is crowned with a 30.06 Cartridge filled with molten lead and then the arrow shaft is added. I have a small hole in the end of the shaft for the #12 Mono Line. I use about 60 feet of it which is tied to the daycron line. I pick the highest appropriate notch in the chosen tree and let it rip. The Arrow Goes up and nearly Straight down due to the Heavy tip. I have also had others with Golfball and Tennis Ball Tips as well. I generally use an old #40 Straight Bow for my Antenna Fishing. Although we did once have up a Very Long Wire laying on the tree tops. That was before the big housing boom to the North on me.

I used my Son's Big Compound bow for that one. Not much aiming, just stand across the street and fire it north at about 45 degrees. No one knows where that arrow went. It sure had a heck of a trail of that Green #24 telephone wire behind it.

Chris mentioned the Water Bottle trick. That works surprising well if you have a decent throwing arm. Still it is pretty hard to get much above 40 feet with that method. YMMV

It is particularly good if you don't have to get it too high or if the leaves are on the trees.

OH! I almost forgot, The Big Heavy Yellow rope has another use. First you take a short 50 Foot length of #50-80 mono and tie that to about 50 feet of daycron or nylon rope then tie on the Big Yellow. This is also a good time to try some of the throwing weights, Water bottles (12-16oz), golf

balls and tennis balls. Zip Lock bags with Sand in them is also good. In fact my high limb chain saw has a sand filled bean bag and to 25 foot nylon ropes.

This is the Tree Pruning kit. In the Fall, you use this same equipment to get the big yellow rope up and over the offending branches and back to where you have both ends and can pull down the offending dead branches.

Actually this process is lots easier with a helper.

I might add that Antenna Work in the Trees is best done ALONE. No Spectators. Also good to wait til all neighbors have gone to work.

You don't want any Stray Cars or people around when you practice the Craft.

One last thing, I generally like to leave a Spare Line or two in selected trees, just in case I need another antenna in an Emergency. In some cases it is a 100 foot length of Military Dacron with the end secured to the tree base. I also have a couple of lengths of RG59 type Twin-ex line over the top and lashed to the base. Some lines are a Loop of Daycron with a Pulley attached raise and lower it via the Daycron Support loop. The Antenna Loop is supported via the pulley.

I have a laugh every time I pass another locals house. He has a big tower in the back yard with a coax to the long wire heading to the front yard. The end of the wire has maybe 30 feet of Military Green Daycron attached which comes down over the top of a small tree near the road. Guess what holds it in position. One Red Construction Brick hanging up in the tree.

The Question is, Did he use the Brick to get the rope up in the tree, or is it just there as a counter-balance?

Hey, It works. A Gallon Milk jug with Sand/Water also makes an excellent counter balance. Keeps the Antenna element high, yet gives when the wind blows.

One last thing, Plan to replace the Support ropes at least once a year.

Or at least check them.

Guess that's enough for this rope trick...

QRPP Dx Tu, (C) 2002 K3TKS

Sir George, The First :^}

72 ES QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net  
Former QRP A.R.C.I. Net Manager and CURRENT Board of Director Member.  
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Yes, We take "PayPal" to "George Gingell" <K3TKS@abs.net>

"72" = "Wishing You Good QRP" (C) 1991 Oleg Borodin, RV3GM

-----  
Date: Thu, 19 Sep 2002 05:11:02 -0500  
From: "Brian" <brian@iquest.net>  
To: <crooke@prodigy.net>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135486] Re: [OT] Antenna farm in movie  
Message-ID: <003201c25fc4\$dcb08c0\$10612bd1@bmurrey2K>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Could it be Radio station HCJB "The Voice of the Andes" out of Quito?

<http://www.hcjb.org/radio/radio.php>

----- Original Message -----

From: "Jim Crooke" <crooke@prodigy.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Wednesday, September 18, 2002 9:51 PM  
Subject: Re: [OT] Antenna farm in movie



> At 21:38 9/18/2002 -0400, Paul Mills wrote:  
> >Has anybody seen the movie, "Proof of Life?" In the closing  
> >scenes they land their helicopter on a hill above Quito(?)  
> >[capital of Equador] with a number of antennae, wires, beams and  
> >log periodics; there is also what looks like a round horizontal  
> >loop. If that hill belongs to a ham, then he's got one heckuva  
> >site.  
>  
>  
> My wife rented it the other night and not being the Meg Ryan fan, I  
didn't  
> watch much of it. I did come in the room at the end of the movie to  
see if  
> she liked it and could tell it was a movie she liked. I sat down  
when the  
> helicopter was approaching the hill and just said WOW! I got this  
really  
> snide look from one who had seen a heartwarming love story and here  
I was  
> drooling over all the wire in the air. I would love to know what  
type of  
> installation that was.  
>  
>  
> 73 es oo's de Jim KJ0C  
> Healer of Brachycephalics and other fine looking creatures in  
Springfield, MO  
> FP # -108 and semi-official veterinarian of the Flying Pig QRP Club  
> PITA # 2 SOC # 37  
>  
>  
>  
>

-----  
Date: Thu, 19 Sep 2002 05:13:59 -0500  
From: "Brian" <brian@iquest.net>  
To: <david.sarrafa@paonline.com>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135487] Re: Radio Frequency Spectrum Chart Needed  
Message-ID: <000a01c25fc5\$45ddb930\$10612bd1@bmurrey2K>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

The ARRL has one for the ham bands at:

<http://www.arrl.org/FandES/field/regulations/bands.html>

Download color or B&W.

73

----- Original Message -----

From: "David B. Sarraf" <david.sarraf@paonline.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Wednesday, September 18, 2002 6:57 PM

Subject: Radio Frequency Spectrum Chart Needed

> Dear jwolfgang@arrl.org

>

> I have a copy of the old merit badge book and will scan and mail you

a

> copy of that chart.

>

> It appears to have been furnished by the ARRL. It has their logo  
and

> contact info in two different places. You may want to see what they

> have available. Maybe it's as easy as pulling it down from their

> website.

>

> Dave Sarraf

> N3NDJ

>

>

>

>

>

-----

Date: Thu, 19 Sep 2002 05:09:48 -0500

From: Karl Kanalz <kkanalz@gcecis.com>

To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>

Subject: [135488] Cheap Lead Weights

Message-ID: <01C25F9A.CC80F180@KKANALZ>

My suggestion of using discarded "tire weights" was not made in jest, and I didn't claim they would be easy to "pull back over" a tree limb if the line wasn't in the "just-right place".

Tire weights, however ARE easy to attach to monofilament fishing lines when used with a slingshot method of firing over a tree branch(es). You just have to tie a knot in the end of the fishing line, pass it through that little "flange" of the tire weight and hammer down the "clip" of the tire weight. What's hard about that?

My original posting was to provide a source of low-cost weights for launching monofilament lines into a tree. There's no doubt that a rounded or spherical fishing lead weight is better for "pulling it BACK over a branch", but if you don't have a source for those, then tire weights will work just fine.

Personally, I use the bow-and-arrow process with a dull arrow point (so it won't stick into the tree) and monofilament fishing line on a spool beside me. The monofilament line is taped to the back of the arrow (which is painted fluorescent red) so if I have to retrieve the line, I can just pull the fishing line and it separates from the shaft of the arrow. If the "assembly" hangs up on a tree limb, I just jerk on the monofilament and the arrow falls free to the leafy ground below. (Use Scotch tape for the connection between fishing line and arrow shaft).

Karl K -W8TIF  
McKinney, Texas  
(just north of W5YR)

-----  
Date: Thu, 19 Sep 2002 06:56:34 -0400  
From: "Ken Newman" <n2cq@dandy.net>  
To: "W3BG" <W3BG@arrl.net>, "EPA-QRP Club" <EPA-QRP@yahoogroups.com>,  
"NJ-QRP Club" <NJQRP@njqrp.org>,  
Subject: [135489] [CONTEST] N2CQ QRP Contest Calendar Sep 20-30  
Message-ID: <001301c25fcb\$39f5b900\$cf9efa42@18.95.182.twsn1.md.home.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

N2CQ QRP CONTEST CALENDAR

September 20-30, 2002

~~~~~  
Scandinavian Activity Contest (CW) ... QRP Category

Sep 21 - 1200z to Sep 22 - 1200z

Rules: <http://www.sk3bg.se/contest/text/sacnsc.txt>

"Work as many Scandinavian stations as possible"

~~~~~  
QRP Afield (All) \*\*\* QRP Contest \*\*\*

Sep 21 - 1500z to Sep 22 - 0300z (Enter your best 6 hours)

Rules: <http://www.qsl.net/wq1rp/qrpaf02r.htm>

"Granddaddy" of the outdoor QRP events"

~~~~~  
Washington State Salmon Run (CW/SSB) ... QRP Category

Sep 21 - 1600z to Sep 22 - 0700z

Sep 22 - 1600z to Sep 22 - 2400z

Rules: <http://www.wwdxc.org/salmonrun/rules.htm>

"Work WA stations. Plaques, Trophies, and Packages of Smoked Salmon"

~~~~~  
Fall QRP Homebrewer Sprint (CW/PSK31) \*\*\*QRP CONTEST\*\*\*

Sep 23 - 0000z to 0400z (Sunday evening in US/Canada)

Rules: <http://www.njqrp.org/data/qrp-homebrewersprint.html>

"Prizes for the winner(s) and special certificates for all"

~~~~~  
CQWW RTTY DX Contest ... <150w Category

Sep 28 - 0000z to Sep 29 - 2400z

Rules: <http://www.rttyjournal.com/rules/cqww.html>

"Big RTTY contest. LOTSA fun on QRP frequencies for CW (NOT!)"

~~~~~  
Tesla Cup ... QRP Category

Sep 28 - 0000z to 2400z (SSB)

Sep 29 - 0000z to 2400z (CW)

Rules: <http://members.aol.com/k3bu/TeslaCup.htm>

"Promote international good will, competition, sportsmanship,  
technical excellence & operating skills"

~~~~~  
Scandinavian Activity Contest (SSB) ... QRP Category

Sep 28 - 1200z to Sep 29 - 1200z

Rules: <http://www.sk3bg.se/contest/text/sacnsc.txt>

"Work as many Scandinavian stations as possible"

~~~~~  
Texas QSO Party (All) ... QRP Category

Sep 28 - 1400z to Sep 29 - 0200z

Sep 29 - 1400z to Sep 29 - 2000z

Rules: <http://www.k5vuu.com/tqp/>

"Contact as many different Texas counties as possible"

~~~~~  
Louisiana QSO Party (CW/PH) ... QRP Category

Sep 28 - 1400z to Sep 29 - 0200z

Sep 29 - 1400z to Sep 29 - 2000z  
Rules: <http://www.tchams.org/users/contest/laqp>  
"Work as many Louisiana stations as possible"

~~~~~  
Alabama QSO Party (CW/SSB) ... QRP Category  
Sept 28 - 1800z to 2400z  
Rules: <http://web.dbtech.net/~dxcc/rules1.htm>  
"Work Alabama Counties"

~~~~~  
Thanks to K3WWP, SM3CER, WA7BNM, ARRL and others  
for assistance in compiling this calendar.

Anyone may use this "QRP Contest Calendar" for your website, newsletter,  
e-mail list or other media as you choose.  
(Include a credit to the source of this material of course.)

72 de  
Ken Newman - N2CQ

N2CQ@ARRL.NET      <http://www.NJQRP.org>  
                     <http://www.N3EPA.org>  
                     <http://www.qsl.net/cqrp/contests.html>

-----  
Date: Thu, 19 Sep 2002 06:57:58 -0400  
From: "John J. McDonough" <[wb8rcr@arrl.net](mailto:wb8rcr@arrl.net)>  
To: "Low Power Amateur Radio Discussion" <[qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)>  
Subject: [135490] Re: [OT] Antenna farm in movie  
Message-ID: <002501c25fcb\$757b2640\$010044c0@chartermi.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
              charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

HCJB was my first card, many, many moons ago. They sent along all sorts of  
pictures, schedules &c in return for my report.

On the subject of antenna farms, is anyone familiar with the farm along I-80  
at the western edge of Pennsylvania? Somebody has an incredible antenna  
farm. Hard to believe it's a ham but there are no obvious industrial-style  
buildings around, only a house.

72/73 de WB8RCR      <http://www.qsl.net/wb8rcr>  
didileydadidah      QRP-L #1446 Code Warriors #35

----- Original Message -----

From: "Brian" <brian@iquest.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Thursday, September 19, 2002 6:11 AM

Subject: Re: [OT] Antenna farm in movie

> Could it be Radio station HCJB "The Voice of the Andes" out of Quito?

-----  
Date: Thu, 19 Sep 2002 07:08:57 -0400

From: Hal Offutt <japancorporateresearch@compuserve.com>

To: QRP-1 <qrp-1@lehigh.edu>

Subject: [135491] QRP With 100 Watt Rig

Message-ID: <200209190709\_MC3-1-110C-A5EA@compuserve.com>

MIME-Version: 1.0

Content-Transfer-Encoding: quoted-printable

Content-Type: text/plain;  
charset=ISO-8859-1

Content-Disposition: inline

Hello,

I just joined the list. I have done QRP on and off over the years using 100 watt rigs turned down to 5W. I'd like to pick up a K2 one of these days, but that won't likely happen soon. =

I'd like to ask what the consensus is about running QRP with a 100 watt r=ig  
turned down and measuring the power output with the rig's power meter  
and/or an outboard power meter. Is this considered to be a legitimate QR= P  
operation? How accurate are such power meters? The built in power meter=

shows 100 watts when the rig is running full power, and when I set it to read 5W output, my external power meter also shows 5W. I'm inclined to believe that I am pretty close to 5W (it sure feels like it). =

Has anyone done any work to actually measure the power output of such a r=ig  
with accurate test equipment to find out if operating a rig in this way i=

S  
truelly QRP (ie below 5w)? And what about running SSB? Am I still runni=  
ng  
5W when I tune up on CW and switch over to SSB?

Alternatively, is there a power meter out there that is specifically  
designed for QRP use?

I'm asking because I'm thinking about running QRP mobile in the upcoming =  
PA  
QSO Party using my trusty old FT767GXII. =

I also have an OMNI 6+. I've never used this as a mobile rig but since i=  
t  
runs off of 12 volts, I'm sure it would work well (although very large). =

Would this rig lend itself to more accurate QRP use?

Comments/advice appreciated. And sorry if this is ground that has been  
covered before or is a controversial topic. I looked through part of the=

archives and didn't notice anything on this topic. =

73,

Hal W1NN

=

-----  
Date: Thu, 19 Sep 2002 07:06:57 -0400  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <kelman@sofnet.com>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135492] Re: 12 volt portable power source.  
Message-ID: <004b01c25fcc\$cf4a10e0\$0300a8c0@charter.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Check the salvage houses like the "Job Lots" stores. Around here we

have "Ocean State Job Lots" and "Building 19" stores.

I've seen those 'Power Pal' things there. Big lunch-box type things with a battery in them. Not THAT good a price, but then still better than most stores.

Mike

-----  
Date: Thu, 19 Sep 2002 04:55:42 -0700  
From: George Fremin III - K5TR <geoiiii@kkn.net>  
To: "John J. McDonough" <wb8rcr@arrl.net>  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135493] Re: [OT] Antenna farm along I-80  
Message-ID: <20020919115542.GA4062@loja.kkn.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Disposition: inline

On Thu, Sep 19, 2002 at 06:57:58AM -0400, John J. McDonough wrote:

>  
> On the subject of antenna farms, is anyone familiar with the farm along I-80  
> at the western edge of Pennsylvania? Somebody has an incredible antenna  
> farm. Hard to believe it's a ham but there are no obvious industrial-style  
> buildings around, only a house.

That is K3LR's station.

<http://www.k3lr.net/>

--  
George Fremin III - K5TR  
geoiiii@kkn.net  
<http://www.kkn.net/~k5tr>

-----  
Date: Thu, 19 Sep 2002 07:58:07 -0400  
From: "John J. McDonough" <wb8rcr@arrl.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Cc: "George Fremin III - K5TR" <geoiiii@kkn.net>  
Subject: [135494] Re: [OT] Antenna farm along I-80  
Message-ID: <005f01c25fd3\$d4e04180\$010044c0@chartermi.net>  
MIME-Version: 1.0



Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Yep - that's the one!

This picture is exactly what you see from I-80 eastbound:

<http://www.k3lr.net/2001/2001LR3.htm>

72/73 de WB8RCR      <http://www.qsl.net/wb8rcr>  
didileydadidah      QRP-L #1446 Code Warriors #35

----- Original Message -----

From: "George Fremin III - K5TR" <geoiiii@kkn.net>  
To: "John J. McDonough" <wb8rcr@arrl.net>  
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Thursday, September 19, 2002 7:55 AM  
Subject: Re: [OT] Antenna farm along I-80

> On Thu, Sep 19, 2002 at 06:57:58AM -0400, John J. McDonough wrote:  
> >  
> > On the subject of antenna farms, is anyone familiar with the farm along  
I-80  
> > at the western edge of Pennsylvania? Somebody has an incredible antenna  
> > farm. Hard to believe it's a ham but there are no obvious  
industrial-style  
> > buildings around, only a house.  
>  
> That is K3LR's station.  
>  
> <http://www.k3lr.net/>  
>  
> --  
> George Fremin III - K5TR  
> [geoiiii@kkn.net](mailto:geoiiii@kkn.net)  
> <http://www.kkn.net/~k5tr>  
>  
>

-----  
Date: Thu, 19 Sep 2002 08:15:36 -0400  
From: k8ff@juno.com  
To: qrp-l@lehigh.edu  
Subject: [135495] Re: [OT] Antenna farm in movie

Message-ID: <20020919.081540.-658759.0.k8ff@juno.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

That antenna farm belongs to Tim Duffy K3LR.

Regards, Wayne K8FF

On Thu, 19 Sep 2002 06:57:58 -0400 "John J. McDonough" <wb8rcr@arrl.net> writes:

> HCJB was my first card, many, many moons ago. They sent along all  
> sorts of  
> pictures, schedules &c in return for my report.  
>

> On the subject of antenna farms, is anyone familiar with the farm  
> along I-80  
> at the western edge of Pennsylvania? Somebody has an incredible  
> antenna  
> farm. Hard to believe it's a ham but there are no obvious  
> industrial-style  
> buildings around, only a house.  
>

> 72/73 de WB8RCR <http://www.qsl.net/wb8rcr>  
> didileydadidah QRP-L #1446 Code Warriors #35  
>

> ----- Original Message -----

> From: "Brian" <brian@iquest.net>  
> To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
> Sent: Thursday, September 19, 2002 6:11 AM  
> Subject: Re: [OT] Antenna farm in movie  
>

> > Could it be Radio station HCJB "The Voice of the Andes" out of  
> Quito?

>  
>

-----  
Date: Thu, 19 Sep 2002 08:44:02 -0400

From: David Hinerman <WD8CIV@worldnet.att.net>

To: qrp-l@lehigh.edu

Subject: [135496] Re: Fence wire for antennas??

Message-ID: <5.1.0.14.1.20020919083804.00a634f0@ipostoffice.worldnet.att.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

At 09:54 PM 9/18/2002 -0400, you wrote:

>Hello to the group,

>

>I just picked up a spool of 2500 feet of steel electric fence wire for \$4  
>at a garage sale, and was pretty happy about finding this item for a  
>future rhombic project. Really would like to make one of those antennas  
>before I move to that hamshack in the sky.

>

>After discussing this with a ham friend I am left with the impression  
>that using this steel wire not only might end the world as we know it,  
>but will forever label me as the wrong end of a horse.

>

>Has anyone used this type of wire for an antenna? Would you care to share  
>the results with me?

Howard,

I had a 40M dipole made from galvanized steel electric fence wire. I don't have a lot to compare it against except a Hustler 5BTV, and the dipole definitely did better on 40. (Some people would claim my dummy load would have been better than the Hustler on 40 as well.)

The galvanizing made the wire easy to solder, and the steel core made it stronger than the equivalent sized copper wire. It did rust through after a while, though. I don't know if soldering or flexing created gaps in the galvanizing, but whatever the cause it eventually broke.

But at \$4 for a half mile, it's not like you can't afford to put it back up.

Dave

-----  
Electrical items never die, you see, I am merely unable to revive them with today's technology.  
-----

Dave Hinerman  
WD8CIV@worldnet.att.net

-----  
Date: Thu, 19 Sep 2002 08:46:15 -0400  
From: David Hinerman <WD8CIV@worldnet.att.net>  
To: qrp-l@lehigh.edu

Subject: [135497] Re: [OT] Antenna farm in movie  
Message-ID: <5.1.0.14.1.20020919084438.00a58c50@ipostoffice.worldnet.att.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 09:38 PM 9/18/2002 -0400, you wrote:

>Has anybody seen the movie, "Proof of Life?" In the closing  
>scenes they land their helicopter on a hill above Quito(?)  
>[capital of Equador] with a number of antennae, wires, beams and  
>log periodics; there is also what looks like a round horizontal  
>loop. If that hill belongs to a ham, then he's got one heckuva  
>site.

Paul,

I haven't seen the movie, but if it was Quito that may have been shortwave  
broadcaster HCJB.

I used to work with a guy who had worked there. He claimed that the next  
valley over from Quito was pretty much full of antennas belonging to the  
station.

Dave

-----  
Electrical items never die, you see, I am merely unable to revive them with  
today's technology.  
-----

Dave Hinerman  
WD8CIV@worldnet.att.net

-----  
Date: Thu, 19 Sep 2002 08:55:31 -0400  
From: brewerj@squared.com  
To: <qrp-1@lehigh.edu>  
Subject: [135498] RE: Weights For the "E-Z Hang"?  
Message-ID: <0F26ECE16E.24C8EEAE-ON85256C39.00469FCB@CIS.SQUARED.COM>  
MIME-Version: 1.0  
Content-type: text/plain; charset=us-ascii

Better legislate out rocks as well. They can be missiles too!

Do it for "the children".....

John wb5oau

PS: What's that old phrase.... " people who give up freedom for safety deserve neither"

PPS: Lug nuts make for good projectiles if using small gauge monofilament. Tie a small ribbon of optic orange surveyors tape on it, so you can find it later!

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Mark J. Dulcey  
Sent: Wednesday, September 18, 2002 10:11 AM  
To: Low Power Amateur Radio Discussion  
Subject: Re: Weights For the "E-Z Hang"

Trevor Jacobs wrote:

>

> I don't understand why an EZ-Hang would be illegal anywhere. With a little  
> common sense, they are a very effective tool for getting a rope over a tree.

Well, the fact is that a slingshot, whether or not it has an attached fishing reel, can be a dangerous weapon. Aim it at the top of a tree for launching antennas, and it's a force for good. Aim it at a car window, or at somebody's eye, and it's a different story. I'm not saying that I favor such laws, but there is some justification for them.

-----  
Date: Thu, 19 Sep 2002 14:07:00 +0100  
From: "Leon Heller" <leon\_heller@hotmail.com>  
To: "Low Power" <qrp-l@lehigh.edu>  
Subject: [135499] Making PCBs at home (long)  
Message-ID: <DAV761nTCTeMEWLGRRT00018758@hotmail.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I thought I'd jot down a few notes about making PCBs, whilst one is 'cooking' under the UV lamps.

For best results at home, you can't beat the standard technique with positive-working resist coated boards and UV exposure. I print the artwork onto tracing paper or special film (fairly expensive stuff) using an old LaserJet

IIIP I got very cheap because it had a faulty LCD display.

I usually use hatched copper fill for the ground connections. The etchant lasts much longer and etching is quicker. The board layout is easier, as I don't have to route the grounds, as a rule. Also, I seem to get more even etching, than with isolated tracks. It's good from an RF point of view, also. I sometimes use double-sided board which gives me a continuous groundplane on the component side. It's a bit of pain countersinking all those holes that aren't connected to the groundplane, though.

To save money on the film, cut the film oversize lengthways, and stick it to the appropriate position on a piece of standard printer paper. I just use a piece of masking tape on the leading edge of the film.

I do my UV exposure with a couple of 12" UV tubes in standard fluorescent fittings, rested on books about 10 cm from the floor, and a couple of inches apart. The artwork/PCB is on the floor facing upwards. I put a magazine over the tubes to keep most of the UV enclosed. I keep meaning to make a proper UV exposure unit in a box, but never seem able to get round to it. I've even had a piece of MDF cut to size to mount the tubes on.

I usually use FPC-16 PCB material. It's available from Farnell, and consists of a paper/fibreglass composite. The fibreglass is very thin, and the stuff is much easier than FR4 material to cut and drill. It's also cheaper. I wouldn't even consider it for professional applications, but it's ideal for home use at HF.

File the edges of the PCB after cutting it, to make sure that it is in perfect contact with the artwork.

Put the toner side in contact with the PCB, for maximum resolution. Make sure you print it the right way round.

I use a piece of thick Perspex (Lucite in the US), and press the PCB and artwork down onto it whilst taping the PCB in position with masking tape. Glass works just as well. I use an exposure time of 8 minutes. This depends on the setup, and needs some experimentation; the old photographic technique with a 'test strip' works very well.

I mix my own developer - 7g of NaOH to 1 litre of water. It's very cheap, so I don't re-use it. It takes about 30 seconds at room temperature.

Etching is done in a pair of plastic food containers. The large one is 1/3 filled with boiling water, and the smaller one contains the FeCl<sub>3</sub> etchant

(500 gm to 1 litre of water). I put about 1 cm of etchant in the container and heat it in the microwave for a couple of minutes. It shouldn't be boiling, the best temperature is around 50C. I then put in the PCB, face upwards, and put the container in the larger one with the hot water. With continuous agitation (I rock the smaller container so that the PCB slides from one end to the other) etching takes less than 10 minutes. Wear rubber gloves - the etchant isn't particularly dangerous to the skin, but you have very hot water in the outer container. With this technique, the occasional splash gets caught in the outer container. I re-use the etchant until it is exhausted, pouring it back into the container. I use old plastic milk containers for the chemicals (no kids are around).

I use cellulose thinners for removing the resist - very cheap. I moisten a piece of kitchen towel in a little and rub the PCB with it. It can be soldered through, I've found, without much difficulty. After removing the resist it can be a good idea to spray the board with a solder-through lacquer.

The whole process takes less than 20 minutes. I regularly use 12/12 design rules (that's 12 mil tracks with 12 mils between tracks), and can get down to 10/10, with some care. People with a better printer can manage 8/8, I've heard. I could generate a Postscript file and get the artwork printed by a local co. with a high-res. printer if I wanted to do 8/8 boards. Its a bit expensive, though.

Apart from the aforementioned rubber gloves, take all the usual safety precautions, especially with the eyes.

I've put a pic of one of my latest efforts on my web site:

[www.geocities.com/leon\\_heller/pcb.html](http://www.geocities.com/leon_heller/pcb.html)

It's an LF DDS, using a 2313 AVR microcontroller and an 8-bit DAC, controlled by the PC via RS-232. It'll make a nice precision AF oscillator and function generator.

Please get in touch if you have any questions.

73, Leon

--

Leon Heller, G1HSM

[leon\\_heller@hotmail.com](mailto:leon_heller@hotmail.com)

[http://www.geocities.com/leon\\_heller](http://www.geocities.com/leon_heller)

-----

Date: Thu, 19 Sep 2002 09:12:12 -0400

From: Kenneth Hoglund <[hoglund@wfu.edu](mailto:hoglund@wfu.edu)>

To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [135500] eHam surprise  
Message-ID: <3D89CD2C.ECFB133F@wfu.edu>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Thanks to all for eHam reports; it was hacked on Friday and came up Monday off and on, seems to be in good shape now. There's an article on the page recounting the disaster.

But logging on this am showed a shack we could all envy--our 'own' George W5YR's shack is featured at the top right.

Way to go!

73  
Ken KG4FGC

-----  
Date: Thu, 19 Sep 2002 07:31:12 -0600  
From: "Rod N0RC" <rod@n0rc.us>  
To: <japancorporateresearch@compuserve.com>,  
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [135501] Re: QRP With 100 Watt Rig  
Message-ID: <004b01c25fe0\$d3ab7f20\$6401a8c0@greyrock>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Welcome Hal,

----- Original Message -----

From: "Hal Offutt" <japancorporateresearch@compuserve.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Sent: Thursday, September 19, 2002 5:08 AM  
Subject: QRP With 100 Watt Rig

> Hello,

..

> I'd like to ask what the consensus is about running QRP with a  
> 100 watt rig turned down and measuring the power output with the  
> rig's power meter and/or an outboard power meter. Is this  
> considered to be a legitimate QRP operation?



Yes. QRP is running 5W nothing more nothing less.

Anything you read about here on this list is merely an extension of the basic principle of operating with no more than 5w. (FWIW I routinely use my Icom 746pro at ~5w)

> How accurate are such power meters?

Most power meters are about %5 to %10 of full scale accurate enough for what we are all doing.

...

> Alternatively, is there a power meter out there that is  
> specifically designed for QRP use?  
>

Check out the WM-2 from OHR, [www.ohr.com](http://www.ohr.com).

73, Rod N0RC

-----  
Date: Thu, 19 Sep 2002 08:52:55 -0500  
From: "George, W5YR" <w5yr@att.net>  
To: kkanalz@gcecisp.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [135502] Re: Cheap Lead Weights  
Message-ID: <3D89D6B7.77546BAE@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Mea culpa - sack cloth and ashes . . .

I apologize to Karl and to the list if my posting re the tire weights came across as overly critical or offensive. Such was not my intention at all. I was motivated solely by memories of the difficulties that I have experienced even with smooth lead weights. I have never tried to use a tire weight, so clearly my words were not from experience in that area.

Karl quite properly emphasises the impropriety of attempting to pull the weight BACK over the limb which is where I suspect that most of the problem with the tire weights would occur. I can see that I need to refine my methods and avoid some of the self-induced problems! <:}

Although several listers posted similar recommendations re the smooth lead sinkers, I was out of line in dismissing Karl's suggestion so lightly.

Now, Karl, should we tackle the proper approach to conjugate matching the slingshot (the power source), the user's abilities and experience (the tuner), the fishing line (the transmission line) and the weight (the load)? Lord, I hope not! <:}

Again, sorry if I ruffled any feathers, especially Karl's. Not that Karl has feathers, mind you - but we have been friends for a few decades now and it pains me to think I would ever post anything to hurt anyone, much less such a good friend.

73/72, George  
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe  
Amateur Radio W5YR - the Yellow Rose of Texas  
In the 57th year and it just keeps getting better!

Karl Kanalz wrote:

>

> My suggestion of using discarded "tire weights" was not made in jest, and I  
> didn't claim they would be easy to "pull back over" a tree limb if the line  
> wasn't in the "just-right place".

<snip for brevity>

-----

Date: Thu, 19 Sep 2002 08:54:20 -0500  
From: "Walter AG5P" <walter@accessus.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135503] Re: Fence wire for antennas??  
Message-ID: <005101c25fe4\$0e3f3200\$eb476ad8@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Use the steel electric fence wire, it works! The galvanizing zinc works as the RF carrier just like on the EMT conduit that has been used for verticals and beams for years and years.

Now I had better justify the above, for dipoles and the shorter types of antennas the steel electric fence wire works just fine. However, my preference is to use the aluminum electric fence wire for large loops, like 80 or

160 meter horizontal loops or a 500 ft horizontal vee, or a really long 'long wire'. The aluminum fence wire seems to hold up better in the air, no rusting and it seems to not break under stress as easy. It is a little more expensive when bought new, but there is a definite difference in the wire survival performance. Avoid any sharp 90 degree bends or kinks with electric fence wire of any type, it will crack the outside coating.

For connecting the feedline, either coax or ladderline, I put a solder tint on whatever wires will take solder, put a small amount of oxide inhibiting compound like Contax or similar on the wires, put them in a split bolt or wire nut connector, paint the connections with Liquid Electrical Tape.

If you are going to splice the galvanized steel wire or the aluminum wire, then my suggestion would be to treat it just like the feedpoint connection and get the best weather seal to keep the splice oxide free.

Thanks for the interesting thread!  
72/73...Walter, AG5P

-----  
Date: Thu, 19 Sep 2002 10:02:50 -0400  
From: "Mark J. Dulcey" <mark@buttery.org>  
To: japancorporateresearch@compuserve.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [135504] Re: QRP With 100 Watt Rig  
Message-ID: <3D89D90A.8060808@buttery.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Transfer-Encoding: 7bit

Hal Offutt wrote:

>  
> I'd like to ask what the consensus is about running QRP with a 100 watt rig  
> turned down and measuring the power output with the rig's power meter  
> and/or an outboard power meter. Is this considered to be a legitimate QRP  
> operation? How accurate are such power meters? The built in power meter  
> shows 100 watts when the rig is running full power, and when I set it to  
> read 5W output, my external power meter also shows 5W. I'm inclined to  
> believe that I am pretty close to 5W (it sure feels like it).

That's certainly a legitimate QRP operation in my eyes, and by the rules of every QRP contest I've ever heard of.

This is ham radio. Your power measurements are not required to be 100% accurate. If your rig is actually putting out 6W instead of 5, don't lose any sleep over it. The power meters commonly used by hams have a typical error of 5-10% (or more). Even the classic Bird 43 is only rated to an accuracy of 5% of full scale.

If making sure that you're REALLY operating QRP will ease your conscience, you can set up to operate at 4W instead of 5, giving yourself some margin of error.

> Alternatively, is there a power meter out there that is specifically  
> designed for QRP use?

There are some QRP power meter kits. One example is the Oak Hills Research WM-2 (<http://www.ohr.com/wattmeter.htm>). Another is the Wilderness Radio KC-2 (<http://www.fix.net/~jparker/wilderness/kc2.htm>), a multifunction device that combines a CW keyer, a frequency counter, and a wattmeter and SWR meter. A less expensive option is the NoGaWaTT kit (<http://www.qsl.net/nogaqrp/>), which sells for a mere \$20. These all have accuracy ratings in the 10% neighborhood for 5W output.

A search for "QRP power meter" on Google will get you a number of links for homebrew designs.

-----  
Date: Thu, 19 Sep 2002 10:20:49 -0400  
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>  
To: "Arland, Rich, K7sz" <rarland@earthlink.net>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135505] RE: Great QRP column by K7SZ  
Message-ID: <721D3436A7C2B344A301FD4A413C71A93D8EED@kosh.ARRLHQ.ORG>  
content-class: urn:content-classes:message  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

Hi, Rich,

Not that I would ever want to give you a hard time in public, but =  
reprint permission can be obtained from Maty Weinberg. Contact =  
mweinberg@arrl.org or permission@arrl.org.

73,=20  
Ed Hare, W1RFI

ARRL Lab  
225 Main St  
Newington, CT 06111  
Tel: 860-594-0318  
Internet: w1rfi@arrl.org  
Web: <http://www.arrl.org/tis>

> -----Original Message-----  
> From: Arland, Rich, K7sz=20  
> Sent: Wednesday, September 18, 2002 6:31 PM  
> To: Low Power Amateur Radio Discussion  
> Subject: Re: Great QRP column by K7SZ  
>=20  
>=20  
> Thanks, Jim.  
>=20  
> For repo permission just contact Joel Kleinman, N1BKE, a the League  
> (jkleinman@arrl.org).  
>=20  
> 73 Rich K7SZ  
>=20  
> ----- Original Message -----  
> From: "Jim Stafford" <jim@byjimeny.com>  
> To: "qrp-l list" <qrp-l@lehigh.edu>  
> Sent: Wednesday, September 18, 2002 12:23 PM  
> Subject: QST: Great QRP column by K7SZ  
>=20  
>=20  
> > I found this month's (October QST) edition of Rich's QRP=20  
> Power column  
> > extremely informative. It would make a great piece (with=20  
> permission)  
> > for any QRP club as a handout at hamfests to "tell who we=20  
> are". In the  
> > past, I have found the ARRL to be very accomodating with their  
> > permission if you put a little spot at the bottom telling=20  
> where you got  
> > it and how to contact them. You'd have to check with them.  
> >  
> > Keep up the great work Rich.  
> >  
> > --  
> > Jim Stafford  
> > Amateur Radio [www.w4qo.com](http://www.w4qo.com)  
> > Routing Information [www.routercraft.com](http://www.routercraft.com)  
> > Married to: [www.mariquilt.com](http://www.mariquilt.com)

> > 11395 West Road, Roswell, GA 30075  
> >  
> >  
> >  
> >  
>=20  
>=20

-----  
Date: Thu, 19 Sep 2002 10:22:06 -0400  
From: Haines Brown <brownh@hartford-hwp.com>  
To: schoon@amgt.com  
Cc: qrp-1@lehigh.edu  
Subject: [135506] Re: OT -- Radio Frequency Spectrum Chart needed  
Message-ID: <200209191422.g8JEM6B07109@hartford-hwp.com>

> IIRC, you can get it for free from the FCC website... A google might help  
> here...

> > maybe I should be more specific <G> looking for some thing  
> > that will meet  
> > the below requirments.  
> >  
> > Draw a chart of the electromagnetic spectrum covering 100  
> > kilohertz (kHz) to  
> > 1000 megahertz (MHz).  
> > Label the MF, HF, VHF, UHF, and microwave portions of the  
> > spectrum on your  
> > diagram.  
> > Locate on your chart at least eight radio services such as AM and FM  
> > commercial broadcast, CB, television, amateur radio (at least  
> > four ham radio  
> > bands), and police.

A google search was frustrating, but I came across this:

[http://bookstore.gpo.gov/cgi-bin/order2001.cgi?  
title=United+States+Frequency+Allocations:+The+Radio+Spectrum,  
+March+1996&stock=003-000-00652-2&price=\\$7.50&listid=&resultPath=/diskb/cgi-bin-  
tmp/HTMLresultsaaytfb](http://bookstore.gpo.gov/cgi-bin/order2001.cgi?title=United+States+Frequency+Allocations:+The+Radio+Spectrum,+March+1996&stock=003-000-00652-2&price=$7.50&listid=&resultPath=/diskb/cgi-bin-tmp/HTMLresultsaaytfb)

If the FCC uses the GPO, this may be the chart in question. In any case, this URL takes you to an order form for item 003-000- 00652-2 United States Frequency Allocations: The Radio Spectrum, March 1996 \$7.50. If you proceed to order, you will see that you can charge it to various charge cards or you are provided with a snailmail address if you wish to send a check. Nothing about any additional handling or mailing charges. They promise delivery in 2-3 weeks.

Haines Brown KB1GRM

-----  
Date: Thu, 19 Sep 2002 10:38:46 -0400  
From: Bruce Muscolino <w6toy@erols.com>  
To: kc8aon@juno.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135507] Re: QRPvs.QR0  
Message-ID: <3D89E176.CD2C14C4@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Well, yes, to a certain extent. The gear did the job they need to do.  
A lower power replacement wouldn't!

73

?

> . Otherwise, why did the military invest so heavily in Collins rigs for  
> MARS use?  
>  
> SIMPLE - DEPENDABILITY !  
>

-----  
Date: Thu, 19 Sep 2002 15:55:47 +0100  
From: "Leon Heller" <leon\_heller@hotmail.com>  
To: "Low Power" <qrp-l@lehigh.edu>  
Subject: [135508] RA3AAE mixer - SPICE simulation  
Message-ID: <DAV22S01bpH71yEXUIE000068b8@hotmail.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

With about two hours of messing about (I don't know SPICE all that well) I managed to get a SPICE model of Vladimir's mixer to simulate correctly. The RF input was 1.001 MHz and the oscillator input was 500 kHz. The output was a 1 kHz sine wave, with quite a bit of RF noise on it. The diodes were a pair of BAR42 Schottky devices.

Changing the oscillator to 1MHz resulted in no output, apart from some noise, so the doubling effect is obviously working.

I don't know what the optimum oscillator level requirement is, or how it performs with strong interfering signals. This would require a detailed mathematical analysis of the circuit and/or a lot of experimentation and simulation. Someone might have already done this, of course. It's probably not as good as a conventional DBM, let alone one of the newer high-performance mixers.

It looks as though this mixer deserves to be used a lot more in QRP radios. Apart from its obvious application in a DC receiver, it would make a pretty good product detector or a mixer in a simple superhet. The main disadvantage is that as the oscillator is half the incoming signal frequency, it cannot be used for the transmitter, in a transceiver. Advantages for a DC receiver are a lack of BCI, no need for screening of the oscillator, and cheapness.

73, Leon

--

Leon Heller, G1HSM  
leon\_heller@hotmail.com  
[http://www.geocities.com/leon\\_heller](http://www.geocities.com/leon_heller)

-----

Date: Thu, 19 Sep 2002 09:58:48 -0500  
From: "George, W5YR" <w5yr@att.net>  
To: hoglund@wfu.edu  
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [135509] Re: eHam surprise  
Message-ID: <3D89E628.F2F6ECEF@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Thanks for the kind words, Ken! I think I have managed to see that picture once in the last year or so! It is pretty much out of date as the shack is constantly changing layout, equipment, etc. Fortunately the photo doesn't show the \*other\* side of the shack where the workbench and all those unfinished projects are stacked! <:}

I'll try to restore some order out there and send in a fresh photo - thanks again for the compliment and for reminding me to upgrade the photo. Besides, the shack will look SO much better with the new K2 sitting on top of the PRO!

73/72, George

Fairview, TX 30 mi NE of Dallas in Collin county EM13qe  
Amateur Radio W5YR - the Yellow Rose of Texas  
In the 57th year and it just keeps getting better!



Kenneth Hoglund wrote:

>  
> Thanks to all for eHam reports; it was hacked on Friday and came up  
> Monday off and on, seems to be in good shape now. There's an article on  
> the page recounting the disaster.  
>  
> But logging on this am showed a shack we could all envy--our 'own'  
> George W5YR's shack is featured at the top right.  
>  
> Way to go!  
>  
> 73  
> Ken KG4FGC

-----  
Date: Thu, 19 Sep 2002 08:29:35 -0400  
From: Hal Offutt <japancorporateresearch@compuserve.com>  
To: "INTERNET:wb8rcr@arrl.net" <wb8rcr@arrl.net>,  
QRP-1 <qrp-1@lehigh.edu>  
Subject: [135510] Re: [OT] Antenna farm in movie  
Message-ID: <200209190829\_MC3-1-10AE-E080@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: quoted-printable  
Content-Type: text/plain;  
charset=ISO-8859-1  
Content-Disposition: inline

Message text written by INTERNET:wb8rcr@arrl.net  
>HCJB was my first card, many, many moons ago. They sent along all sorts=  
of  
pictures, schedules &c in return for my report.

On the subject of antenna farms, is anyone familiar with the farm along  
I-80  
at the western edge of Pennsylvania? Somebody has an incredible antenna  
farm. Hard to believe it's a ham but there are no obvious industrial-sty=  
le  
buildings around, only a house.  
<

That's the K3LR contest station. I drive past it about 14 times each yea=  
r  
and  
nearly drive off the road each time. It's quite a sight. I think you  
could probably

stop at the rest area on the south side of I-80 and walk over pretty close to the =

edge of the property if you wanted to and get a real good look.

Hal W1NN

-----  
Date: Thu, 19 Sep 2002 17:15:17 +0200  
From: "Juanjo Pastor" <ec5aca@wanadoo.es>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135511] CQ fm EA5 agn!  
Message-ID: <000301c25ff2\$4d18f200\$5733243e@fer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

Hello again:

Me and my trusty and drifty TT1320 will make the trip to Liria once more this Friday evening to be on the air around 22:00 UTC on 14.060 or whereabouts. Last week I was calling for 30 minutes or more with no takers, hope to copy some east-coasters this time. I do know it is a bit early for you, but I will be 30 miles away from home at 00:00 AM... I also hope to be on the air on Saturday evening with a dipole from my countryside "chalet" in Picassent. I will be at home so I could stay up till late and would like to hear some west coast and middle west stations for my 20 meter WAS. CUL!

73, 72 de Juanjo, EA5CHQ-EC5ACA. EA-QRP #104, G-QRP #9742, QRP-L #1662.

Juanjo Pastor  
C/San Roque, 4-1=BA  
46460 Silla  
SPAIN

e-mail: ea5chq@wanadoo.es  
Tel.: +034 96 120 17 67  
Movil: 651 35 35 11

-----

Date: Thu, 19 Sep 2002 10:37:12 -0500  
From: John Seboldt <k0jd-l@seboldt.net>  
To: qrp-l@lehigh.edu  
Subject: [135512] Re: What's scarier than mounting surface mount parts?  
Message-ID: <5.1.0.14.0.20020919103601.00a27700@seboldt.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 06:21 PM 9/18/02 -0400, you wrote:

>For the home hobbyist, there's a kit called a 'chipquick' kit. I have  
>a few of them here, from different manufactures. They seem to be  
>slightly different, but they all seem to work on the same principle.  
>  
>It looks like solder, but in fact it's a material that ALLOYS with  
>solder and lowers it's melting point so low parts can be taken off  
>with a hair dryer.

OK, great stuff... I've missed this in years of reading catalogs, etc., so  
how about a few specific manufacturers and sources?

John K0JD

-----  
Date: Thu, 19 Sep 2002 17:41:53 +0200  
From: Alen Mitrovic <alen.mitrovic@hermes.si>  
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>,  
GQRP@yahoogroups.com  
Subject: [135513] Education movies for HAMLET's  
Message-ID: <FED7EB450413D511ABC100B0D0211732072BD0C1@ha19000.hermes.si>  
MIME-Version: 1.0  
Content-Type: text/plain

Hi,  
Does anyone have any HAM expeditions movie or other (HAM educational movie  
stuff) in a mpeg or similar format that I can download?  
We're preparing courses for newcomers (HAMLET's) and could use that kind of  
material.

72/73  
de

Alen / S53MA

-----  
Date: Thu, 19 Sep 2002 13:56:05 -0300  
From: Dave Marling <ve1vq@auracom.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135514] Re: Making PCBs at home (long)  
Message-ID: <5.1.0.14.0.20020919135441.02b1e0b8@mail.auracom.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

>  
>soldered through, I've found, without much difficulty. After removing the  
>resist it can be a good idea to spray the board with a solder-through  
>lacquer.

Leon,

What is the name (specific or generic) of the lacquer?

Dave  
VE1VQ

-----  
Date: Thu, 19 Sep 2002 13:13:28 -0400  
From: "Charles W3KC" <w3kc@starpower.net>  
To: <qrp-l@lehigh.edu>  
Subject: [135515] re: Quito Antenna Farm  
Message-ID: <001401c26000\$036ae9c0\$24112c42@w3kc>

NASA had a tracking station near Quito. NASA ceased operating there after their TDRS network was established, but as far as I know, the 40' dish and other antennas are still there. Check out:  
<http://www.atlantic.net/~gschulz/bfecpho.htm>  
72 de Chas W3KC

-----  
Date: Thu, 19 Sep 2002 10:08:28 -0700  
From: "John McClain" <digi2@earthlink.net>  
To: <leon\_heller@hotmail.com>,

"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135516] Re: Making PCBs at home (long)  
Message-ID: <004501c25fff\$2e17b500\$6501a8c0@phoenix.speedchoice.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

What software do you use to design the board?

John  
K7SVV  
K2 #2569, SST 20, Rock Mite 20

----- Original Message -----

From: "Leon Heller" <leon\_heller@hotmail.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Thursday, September 19, 2002 6:07 AM  
Subject: Making PCBs at home (long)

> I thought I'd jot down a few notes about making PCBs, whilst one is  
> 'cooking' under the UV lamps.  
>  
> For best results at home, you can't beat the standard technique with  
> positive-working resist coated boards and UV exposure. I print the  
artwork  
> onto tracing paper or special film (fairly expensive stuff) using an  
old  
> LaserJet  
> IIIP I got very cheap because it had a faulty LCD display.  
>  
> I usually use hatched copper fill for the ground connections. The  
etchant  
> lasts much longer and etching is quicker. The board layout is  
easier, as I  
> don't have to route the grounds, as a rule. Also, I seem to get more  
even  
> etching, than with isolated tracks. It's good from an RF point of  
view,  
> also. I sometimes use double-sided board which gives me a continuous  
> groundplane on the component side. It's a bit of pain countersinking  
all  
> those holes that aren't connected to the groundplane, though.  
>  
> To save money on the film, cut the film oversize lengthways, and  
stick it to  
> the appropriate position on a piece of standard printer paper. I

just use a  
> piece of masking tape on the leading edge of the film.  
>  
> I do my UV exposure with a couple of 12" UV tubes in standard  
fluorescent  
> fittings, rested on books about 10 cm from the floor, and a couple  
of inches  
> apart. The artwork/PCB is on the floor facing upwards. I put a  
magazine over  
> the tubes to keep most of the UV enclosed. I keep meaning to make a  
proper  
> UV exposure unit in a box, but never seem able to get round to it.  
I've even  
> had a piece of MDF cut to size to mount the tubes on.  
>  
> I usually use FPC-16 PCB material. It's available from Farnell, and  
consists  
> of a paper/fibreglass composite. The fibreglass is very thin, and  
the stuff  
> is much easier than FR4 material to cut and drill. It's also  
cheaper. I  
> wouldn't even consider it for professional applications, but it's  
ideal for  
> home use at HF.  
>  
> File the edges of the PCB after cutting it, to make sure that it is  
in  
> perfect contact with the artwork.  
>  
> Put the toner side in contact with the PCB, for maximum resolution.  
Make  
> sure you print it the right way round.  
>  
> I use a piece of thick Perspex (Lucite in the US), and press the PCB  
and  
> artwork down onto it whilst taping the PCB in position with masking  
tape.  
> Glass works just as well. I use an exposure time of 8 minutes. This  
depends  
> on the setup, and needs some experimentation; the old photographic  
technique  
> with a 'test strip' works very well.  
>  
> I mix my own developer - 7g of NaOH to 1 litre of water. It's very  
cheap, so  
> I don't re-use it. It takes about 30 seconds at room temperature.  
>  
> Etching is done in a pair of plastic food containers. The large one

is 1/3

> filled with boiling water, and the smaller one contains the FeCl<sub>3</sub> etchant

> (500 gm to 1 litre of water). I put about 1 cm of etchant in the container

> and heat it in the microwave for a couple of minutes. It shouldn't be

> boiling, the best temperature is around 50C. I then put in the PCB, face

> upwards, and put the container in the larger one with the hot water. With

> continuous agitation (I rock the smaller container so that the PCB slides

> from one end to the other) etching takes less than 10 minutes. Wear rubber

> gloves - the etchant isn't particularly dangerous to the skin, but you have

> very hot water in the outer container. With this technique, the occasional

> splash gets caught in the outer container. I re-use the etchant until it is

> exhausted, pouring it back into the container. I use old plastic milk

> containers for the chemicals (no kids are around).

>

> I use cellulose thinners for removing the resist - very cheap. I moisten a

> piece of kitchen towel in a little and rub the PCB with it. It can be

> soldered through, I've found, without much difficulty. After removing the

> resist it can be a good idea to spray the board with a solder-through

> lacquer.

>

> The whole process takes less than 20 minutes. I regularly use 12/12 design

> rules (that's 12 mil tracks with 12 mils between tracks), and can get down

> to 10/10, with some care. People with a better printer can manage 8/8, I've

> heard. I could generate a Postscript file and get the artwork printed by a

> local co. with a high-res. printer if I wanted to do 8/8 boards. Its a bit

> expensive, though.

>

> Apart from the aforementioned rubber gloves, take all the usual

safety  
> precautions, especially with the eyes.  
>  
> I've put a pic of one of my latest efforts on my web site:  
>  
> [www.geocities.com/leon\\_heller/pcb.html](http://www.geocities.com/leon_heller/pcb.html)  
>  
> It's an LF DDS, using a 2313 AVR microcontroller and an 8-bit DAC,  
> controlled by the PC via RS-232. It'll make a nice precision AF  
oscillator  
> and function generator.  
>  
> Please get in touch if you have any questions.  
>  
> 73, Leon  
> --  
> Leon Heller, G1HSM  
> [leon\\_heller@hotmail.com](mailto:leon_heller@hotmail.com)  
> [http://www.geocities.com/leon\\_heller](http://www.geocities.com/leon_heller)  
>

-----  
Date: Thu, 19 Sep 2002 13:18:56 -0400  
From: "Steve Blary" <[steve@eclipsecat.com](mailto:steve@eclipsecat.com)>  
To: "Low Power Amateur Radio Discussion" <[qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)>  
Subject: [135517] OT -- Radio Frequency Spectrum Chart needed THANKS!  
Message-ID: <PPEIIGOHKOAKJAPHAODHKEBADMAA.steve@eclipsecat.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Thanks to all who responded!

72's  
Steve, N1XC

-----  
Date: Thu, 19 Sep 2002 12:28:04 -0500  
From: Ken Hopper <[khopper@uchicago.edu](mailto:khopper@uchicago.edu)>  
To: QRP-L <[qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)>  
Subject: [135518] re: ChipQuick kit (de ken n9vv)



Message-ID: <3D8A0924.96124CC8@uchicago.edu>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Found this on Google  
<http://www.emulation.com/cq2000/>  
looks worthwhile

But what do these mean? Can someone help me decode these modern mounting methods?

QFP's, PLCCs, SOICs, TSOPs, SSOPs

TU  
de ken n9vv

-----  
Date: Thu, 19 Sep 2002 18:35:39 +0100  
From: "Leon Heller" <leon\_heller@hotmail.com>  
To: "John McClain" <digi2@earthlink.net>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135519] Re: Making PCBs at home (long)  
Message-ID: <DAV35mLAztxc1o8yfog00016b1b@hotmail.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

----- Original Message -----  
From: "John McClain" <digi2@earthlink.net>  
To: <leon\_heller@hotmail.com>; "Low Power Amateur Radio Discussion"  
<qrp-l@Lehigh.EDU>  
Sent: Thursday, September 19, 2002 6:08 PM  
Subject: Re: Making PCBs at home (long)

> What software do you use to design the board?

A fairly expensive (\$4000) new professional package called Pulsonix:  
<http://www.pulsonix.com>

It competes with PADS, CADStar and Orcad, but is much better value, and easier to use.

It's a superb package (I helped with the beta testing) but overkill for many

of the boards I make. I can design a board very quickly with it, though. It's really intended for complex multilayer boards, and can handle things like multiple power planes, blind and buried vias, etc. It's got a very good autorouter, but I don't use it much.

EasyPC is very good value (it's out of the same stable) for less critical applications; I used it for years. I've been testing the new version, and it's very good: <http://www.numberone.com/>

73, Leon

--

Leon Heller, G1HSM  
leon\_heller@hotmail.com  
[http://www.geocities.com/leon\\_heller](http://www.geocities.com/leon_heller)

-----  
Date: Thu, 19 Sep 2002 13:49:38 -0400  
From: <jmbrown@edge.net>  
To: qrp-1@lehigh.edu  
Cc: jmbrown@edge.net, milligan@charter.net, n0rc@arrl.net  
Subject: [135520] Rock-Mite Kicks Atmosphere  
Message-ID: <20020919174938.DWPZ4223.fl-webmail01@fl-webmail01>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=8859\_1  
Content-Transfer-Encoding: 7bit

CORRECTION OF PREVIOUS POSTING-

In a previous post from 9/10/02 I reported my 20 minute Rock-Mite QSO with ZL4IE in Dunedin, New Zealand from my QTH in Columbia, TN.

I later found out that ZL4IE, Alex, is 91 years old.

Well, it turns out that this DX contact actually spanned 8485 miles at 500 milliwatts or 30 miles short of 17,000 miles per watt (I goofed somewhere in the previous great circle distance calculation and got 7500 miles for the actual distance between our stations the first time for my earlier posting).

I was at QRP-ARCI website checking out the "miles per watt" certificate when I recomputed on their link to [www.indo.com](http://www.indo.com). I recomputed at another site and got the same new distance.

Okay guys, fire up you Rock-Mites and top this

8485 mile DX QSO at 500 milliwatts!

THIS IS A 2.9 OUNCE RADIO!!!

My antenna- 4 element monoband yagi at 110 feet.  
ZL4IE has wire antenna (G5RV or similar).

72,

Jerry N4EO

-----  
Date: Thu, 19 Sep 2002 09:49:25 -0800  
From: Jim Larsen - AL7FS <JimLarsen2002@alaska.net>  
To: japancorporateresearch@compuserve.com,  
"qrp-l@lehigh.edu" <qrp-l@lehigh.edu>  
Subject: [135521] Re: QRP With 100 Watt Rig  
Message-ID: <3D8A0E25.1DA0F84B@alaska.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Check out my article at <http://www.qsl.net/al7fs/AL7FS1.html> titled  
QRP - Getting Started - Using your current rig on QRP

This is just one perspective on the subject.

73 Jim, AL7FS  
<http://www.qsl.net/al7fs/>

-----  
Date: Thu, 19 Sep 2002 14:03:01 -0400  
From: David Hinerman <WD8CIV@worldnet.att.net>  
To: qrp-l@lehigh.edu  
Subject: [135522] re: ChipQuick kit (de ken n9vv)  
Message-ID: <5.1.0.14.1.20020919133923.00a77910@ipostoffice.worldnet.att.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 12:28 PM 9/19/2002 -0500, you wrote:  
>Found this on Google  
><http://www.emulation.com/cq2000/>  
>looks worthwhile

>  
>But what do these mean? Can someone help me decode these modern mounting  
>methods?  
>  
>QFP's, PLCCs, SOICs, TSOPs, SSOPs

Ken,

QFP = quad flat pack. An IC package that is square or rectangular with leads all the way around. Leads come out of the side of the chip, bend down at a 90 degree angle, then bend out at another 90 degree angle ("gull-wing") so that the chip rests on the bottom surfaces of the leads when mounted. You may also see PQFP - plastic quad flat pack. Popular for microcontrollers and other parts with lots (40+) of leads. Not typically used in a socket - almost always soldered directly to the board. Lead spacing is 0.65 mm (.026 in.)

PLCC = plastic leaded chip carrier. Rectangular or square plastic body with leads all the way around. Leads come out of the body, turn down, then turn under the body of the chip and back up. ("J-lead") Typically soldered, but can be used in a socket as well. Popular for EPROMs for that reason. Lead spacing is 1.27 mm (.050 in.)

SOIC - small outline integrated circuit. Rectangular body with leads along the two longest sides. (Resembles a DIP but much smaller.) Gull-wing leads, soldered directly to the board. Most small analog and logic ICs that are available in DIP packages come in SOIC packages with the same pinout. Lead spacing is about 1.27 mm (.050 in.)

TSOP - thin small outline package. Like SOIC but smaller. Lead spacing is about 0.55 mm (.021 in.) Thinner than most other packages.

SSOP - shrink small outline package. Like SOIC but smaller, yet not as small as TSOP. Lead spacing is 0.65 mm (.026 in.)

All of this information is from Atmel's Web site:

<http://www.atmel.com/atmel/quality/quality13.htm>

Dave

-----  
Electrical items never die, you see, I am merely unable to revive them with today's technology.  
-----

Dave Hinerman  
WD8CIV@worldnet.att.net

-----  
Date: Thu, 19 Sep 2002 14:13:54 -0400  
From: Alex <kr1st@amsat.org>  
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135523] Multiple counterpoises  
Message-ID: <3D8A13E2.6DE188CE@amsat.org>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit

Hi ya'll,

I've put about 50 feet of #26 wire in the tree in the backyard and for now I use a 34 foot counterpoise to tune the wire against until I get my ground system in place and have time to put the 66 ft EFHWA up. I was wondering if it would be better to install additional counterpoises to tune the bands above 40 meters?

Thanks and 73,  
--Alex (KR1ST)

-----  
Date: Thu, 19 Sep 2002 14:15:43 -0400  
From: "Robin Kidd" <robink@us.ibm.com>  
To: qrp-l@lehigh.edu  
Subject: [135524] Re: QRP With 100 Watt Rig  
Message-ID: <0FADFF002C.C440E857-0N85256C39.00642829@boulder.ibm.com>  
MIME-Version: 1.0  
Content-type: text/plain; charset=us-ascii

Jim,

That was a great article. Thanks for the input - we need more things like this to get the word out that QRP is really fun...

72s,

Robin J. Kidd  
KG4RSQ  
Network Engineer  
IBM Learning Services

Remember, the Ark was created by inspired amateurs but the Titanic was created by professionals...

Internet: robink@us.ibm.com  
Phone: 770.835.3596(T/L 596)

Jim Larsen - AL7FS <JimLarsen2002@alaska.net>@Lehigh.EDU on 09/19/2002  
01:49:25 PM

Please respond to JimLarsen2002@alaska.net

Sent by: owner-qrp-1@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
cc:  
Subject: Re: QRP With 100 Watt Rig

Check out my article at <http://www.qsl.net/al7fs/AL7FS1.html> titled  
QRP - Getting Started - Using your current rig on QRP

This is just one perspective on the subject.

73 Jim, AL7FS  
<http://www.qsl.net/al7fs/>

-----  
Date: Thu, 19 Sep 2002 15:03:58 -0400  
From: "Paul Christensen" <w9ac@arrl.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [135525] Norcal SST  
Message-ID: <019201c2600f\$4f281cc0\$6401a8c0@se1.client2.attbi.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Lately, I've been adding some subtle and previously documented mods to the Norcal SST. I note that the trailing keyed waveform is not shaped at all....although the rise time looks adequate. The SST is keyed by

turning a video op-amp on/off. The same keyed waveform technique as used in the Norcal 40a and other transceivers won't work. Before I begin digging in for the solution, I wanted to see if anyone has implemented a mod. I have already checked both "SST Mod" web sites. The only post I've found is my own from several years ago....

Paul, W9AC

-----  
Date: Thu, 19 Sep 2002 19:05:09 +0100  
From: Chuck Adams <k7qo@earthlink.net>  
To: jmbrown@edge.net,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135526] Re: Rock-Mite Kicks Atmosphere  
Message-ID: <5.1.0.14.0.20020919185955.009f6dc0@mail.earthlink.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 01:49 PM 9/19/02 -0400, jmbrown@edge.net wrote:  
>... snip, snip, snip ....

>Okay guys, fire up your Rock-Mites and top this  
>8485 mile DX QSO at 500 milliwatts!  
>  
>THIS IS A 2.9 OUNCE RADIO!!!  
>  
>My antenna- 4 element monoband yagi at 110 feet.  
>ZL4IE has wire antenna (G5RV or similar).  
>  
>72,  
>  
>Jerry N4EO

Uh Jerry,

How much does the tower and yagi weigh? My 160 meters of #12 wire weighs in at slightly less than that. :-)

Good job on the miles per watt and that one is gonna be tough to beat until later in the winter. It'll be interesting to see who catches each of the other continents first with a Rock-Mite. Two down and

5 more to go if I remember my geography correctly.

dit dit es tn timer for the posting,

Chuck Adams, K7QO CP-60 k7qo@earthlink.net  
<http://www.qsl.net/k7qo>

Moving to Arizona? --- Bring your own water, please.

-----  
Date: Thu, 19 Sep 2002 14:09:52 -0500 (EST)  
From: tomb@kiva.net (Thomas H. Busch)  
To: qrp-1@lehigh.edu  
Subject: [135527] Homemade soldermask?  
Message-ID: <20020919190952.3744D34F11@mayhem.kiva.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I've seen this topic in the archives, but not really an answer to my question...Does anyone have a way to put a soldermask on home made PC boards?

I understand the normal way is to silk-screen an epoxy resin onto the board, but I'd rather not have to set up for it.

I was hoping that I could put stick-on dots on the board and then brush on some sort of laquer, and then remove the dots. Epoxy would probably secure them to the board permanently :-)

73,

Tom Busch WB8WOR

-----  
Date: Thu, 19 Sep 2002 12:12:29 -0700 (PDT)  
From: Lloyd Lachow <llachow@yahoo.com>  
To: QRP-1 <qrp-1@lehigh.edu>  
Subject: [135528] Re:Multiple counterpoises  
Message-ID: <200209191229.57259.qmail@web10001.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii



I had two 17' counterpoises with my K1 and longwire,  
and it would not tune on 15M. Then I added two 33'  
counterpoises, and with the four, I get 1:1 or 1.1:1  
on all bands, all the time.  
Lloyd, K3ESE

-----  
Do you Yahoo!?  
New DSL Internet Access from SBC & Yahoo!  
<http://sbc.yahoo.com>

-----  
Date: Thu, 19 Sep 2002 15:23:44 -0400  
From: Steve <semann@tcia.net>  
To: TenTec List <tentec@contesting.com>, QRP List <qrp-l@lehigh.edu>  
Subject: [135529] FS: Tentec KR1 paddle and T-Kit keyer  
Message-ID: <3D8A2440.4F23F9A8@arrl.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

For sale as a package:

TenTec KR-1 keyer paddle (double lever)  
TenTec T-KIT #1553 budget electronic keyer kit, unassembled with  
instructions.  
Photo available.  
The electronic keyer when assembled can be mounted into the KR-1  
cabinet.

\$35, shipping extra.

email if interested

Steve N4EY

n4ey@arrl.net

-----  
Date: Thu, 19 Sep 2002 15:24:22 -0400  
From: W2AGN <w2agn@w2agn.net>  
To: jmbrown@edge.net,  
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135530] Re: Rock-Mite Kicks Atmosphere  
Message-ID: <3D89EC26.268.1AAC487E@localhost>

MIME-version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-description: Mail message body

On 19 Sep 2002 at 13:49, jmbrown@edge.net wrote:

> Okay guys, fire up you Rock-Mites and top this  
> 8485 mile DX QSO at 500 milliwatts!  
>  
> THIS IS A 2.9 OUNCE RADIO!!!  
>  
> My antenna- 4 element monoband yagi at 110 feet.  
> ZL4IE has wire antenna (G5RV or similar).  
>  
> 72,  
>  
> Jerry N4EO  
>  
>

Now you blew it! 4 element yagi at 110' indeed. Everyone knows for REAL QRP you have to use a 44' wire, (preferably Radio Shack speaker wire, but fence wire is acceptable) fed with cheap twinlead, and thrown up over the nearest trees using a slingshot or spud gun.

4 elements at 110' feet...grumble, grumble....(envy,envy....).

Here's a guy that doesn't live in a place with antenna restrictions!

--

/ \ / \ / \ / \ / \ John L. Sielke  
( W )( 2 )( A )( G )( N ) <http://www.w2agn.net>  
\\_/\_ \\_/\_ \\_/\_ \\_/\_ \\_/\_ QRPARCI, NJQRP, ARQrp,GQRP,RSGB  
Ex- K3HLU, W7JEF, W4MPC, N4JS

-----  
Date: Thu, 19 Sep 2002 13:24:40 -0600  
From: "" <markb@abq.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [135531] Re: ChipQuick kit (de ken n9vv)  
Message-ID: <7152cfd912d7496ba380653533a014ee.markb@abq.com>  
MIME-Version: 1.0

Content-type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: quoted-printable

> Can someone help me decode these modern mounting methods?

They're not mounting methods, they're device package designations,  
just like a "TO-220" for an IRF-510 or "TO-92" for a plastic 2N2222:

> QFP's,=20  
Quad Flat Pack

> PLCCs,=20  
Plastic J-Lead Chip Carrier

> SOICs,=20  
Small-Outline IC

> TSOPs, [TSSOP]  
Thin Shrink Small Outline Package

> SSOPs=20  
Shrink Small Outline Package

These, and many more, can be found at just about any IC manufacturer's  
website under "package descriptions" or "package outlines"=2E=20

Mark K5LXP  
Albuquerque, NM  
k5lxp@arrl=2Enet

-----  
Date: Thu, 19 Sep 2002 20:31:23 +0100  
From: "Hubert Smits" <hubert.smits@btinternet.com>  
To: "'Low Power Amateur Radio Discussion'" <qrp-1@lehigh.edu>,  
<GQRP@yahoogroups.com>  
Subject: [135532] Sound samples  
Message-ID: <000401c26013\$27ad5030\$0100000a@mynote>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

OM's,

Via the Dutch ham newsgroup I found this website with .wav file from a various digital modes:

<http://rover.vistecprivat.de/~signals/index.html>

72 de Hubert - MM0GMM

-----  
Date: Thu, 19 Sep 2002 15:58:09 -0400  
From: "Lee Mairs" <lairs@cox.net>  
To: <w2agn@w2agn.net>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135533] Re: Rock-Mite Kicks Atmosphere  
Message-ID: <006d01c26016\$e0b8ce30\$0902a8c0@boomer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

C'mon John! Don't start the 44' vs. 88' thread again!

73 de Lee

KM4YY

----- Original Message -----

From: "W2AGN" <w2agn@w2agn.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Thursday, September 19, 2002 3:24 PM  
Subject: Re: Rock-Mite Kicks Atmosphere

> On 19 Sep 2002 at 13:49, jmbrown@edge.net wrote:

>

> > Okay guys, fire up you Rock-Mites and top this

> > 8485 mile DX QSO at 500 milliwatts!

> >

> > THIS IS A 2.9 OUNCE RADIO!!!

> >

> > My antenna- 4 element monoband yagi at 110 feet.

> > ZL4IE has wire antenna (G5RV or similar).

> >

> > 72,

> >

> > Jerry N4E0

> >

> >

>  
> Now you blew it! 4 element yagi at 110' indeed. Everyone knows for REAL  
QRP you have to use a 44' wire, (preferably Radio Shack speaker wire, but  
fence wire is  
> acceptable) fed with cheap twinlead, and thrown up over the nearest trees  
using a slingshot or spud gun.  
>  
> 4 elements at 110' feet...grumble, grumble....(envy,envy....).  
>  
>  
> Here's a guy that doesn't live in a place with antenna restrictions!  
>  
>  
>  
> --  
>  
> /\_ \ /\_ \ /\_ \ /\_ \ /\_ \ John L. Sielke  
> ( W )( 2 )( A )( G )( N ) <http://www.w2agn.net>  
> \\_/ \\_/ \\_/ \\_/ \\_/ \\_/ QRPARCI, NJQRP, ARQrp,GQRP,RSGB  
> Ex- K3HLU, W7JEF, W4MPC, N4JS  
>

-----  
Date: Thu, 19 Sep 2002 16:05:42 -0400  
From: W2AGN <[w2agn@w2agn.net](mailto:w2agn@w2agn.net)>  
To: Lee Mairs <[lmairs@cox.net](mailto:lmairs@cox.net)>,  
Low Power Amateur Radio Discussion <[qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)>  
Subject: [135534] Re: Rock-Mite Kicks Atmosphere  
Message-ID: <3D89F5D6.14612.1AD21C4C@localhost>  
MIME-version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-description: Mail message body

On 19 Sep 2002 at 15:58, Lee Mairs wrote:

> C'mon John! Don't start the 44' vs. 88' thread again!  
> 73 de Lee  
> KM4YY  
Hey, an 88' piece of wire can still be QRP, if your match isn't conjugal. But a  
110' tower with 4 element monobander? Where are the QRP police when you need  
them?

--

/\ /\ /\ /\ /\ John L. Sielke  
( W )( 2 )( A )( G )( N ) <http://www.w2agn.net>  
\\_/\_ \\_/\_ \\_/\_ \\_/\_ \\_/\_ QRP/ARCI, NJQRP, ARQrp, GQRP, RSGB  
Ex- K3HLU, W7JEF, W4MPC, N4JS

-----  
Date: Thu, 19 Sep 2002 14:32:15 -0600  
From: Rod N0RC <rod@n0rc.us>  
To: <w2agn@w2agn.net>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135535] Re: [Re: Rock-Mite Kicks Atmosphere]  
Message-ID: <200209192034.g8JKXhoh007873@rain.CC.Lehigh.EDU>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: quoted-printable

W2AGN <w2agn@w2agn.net> wrote:

> On 19 Sep 2002 at 13:49, jmbrown@edge.net wrote:  
> =

=2E..  
> > =

> > My antenna- 4 element monoband yagi at 110 feet.  
> > ZL4IE has wire antenna (G5RV or similar).  
=2E..  
> =

> Everyone knows for =

> REAL QRP you have to use a 44' wire, (preferably Radio Shack speaker =

> wire, but fence wire is acceptable) fed with cheap twinlead, and =

> thrown up over the nearest trees using a slingshot or spud gun. =

Or, placed in the attic of a one story home. ;-)

73, Rod N0RC

-----  
Date: Thu, 19 Sep 2002 16:44:04 -0400  
From: Nils R Young <nilsbull@juno.com>

To: QRP-L@lehigh.edu  
Subject: [135536] Them Rock-Mite Mods  
Message-ID: <20020919.165012.-244421.1.nilsbull@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Y'all,

Man, what kind of frop are you folks burnin' out there? I mean, here ol' Dave Benson comes up with a particularly cool idea for a radio & all of a sudden there's all these mods graped on to it so it takes up two or more Altoids tins! I mean, sure, RIT would be nice & maybe I might even put it on/in my own little RM for which I have also ordered the spatial box what Doug Hauff has for it. Which will mean that I'll have to make a choice between usin' the pot hole for the RIT pot or I'll have to figure out something using a tiny screw driver in a hole what I'll have to drill to mess up the box what Doug dreamed up and all that.

Good grief!

You guys need intervention as much as I do!

73

Nils

. . . I took about two thirds of the type metal to the recycler & got a bit over \$50 for it so far . . . one more trip & I'll have enough for the start on another radio . . . or shock absorbers . . .

-----  
Nils R. Bull Young -- W8IJN -- La Estancia de los Guajolotes Sonrientes  
<http://w8ijn.tripod.com> -- <http://members.fortunecity.com/nilsbull>  
"The island is closer than your memories are." -- Ian G. Bull Young, 15  
Feb 2002

-----  
GET INTERNET ACCESS FROM JUNO!

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<http://dl.www.juno.com/get/web/>.

-----  
Date: Thu, 19 Sep 2002 16:43:43 -0400  
From: "K7SZ" <rarland@earthlink.net>  
To: "Hare,Ed, W1RFI" <w1rfi@arrl.org>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135537] Re: Great QRP column by K7SZ

Message-ID: <002201c2601d\$3fbf1280\$de302940@rich>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

----- Original Message -----  
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>

Hi, Rich,

Not that I would ever want to give you a hard time in public,  
but.....

Yeah, right, Ed! You'd never miss an opportunity to give me a hard time in  
public OR private!

Thanks, pal.

73 Rich K7SZ

-----  
Date: Thu, 19 Sep 2002 17:00:03 -0400  
From: Tom Feeny <tfeeny@comcast.net>  
To: \*QRP-L <qrp-l@lehigh.edu>  
Subject: [135538] Re: Great QRP column by K7SZ  
Message-ID: <000501c2601f\$888d27c0\$865d2044@waldlk01.mi.comcast.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-transfer-encoding: 7BIT

Can't you kids play nice?

> Hi, Rich,  
>  
> Not that I would ever want to give you a hard time in public,  
> but.....  
>  
> Yeah, right, Ed! You'd never miss an opportunity to give me a hard time in  
> public OR private!  
>  
> Thanks, pal.



>  
> 73 Rich K7SZ

-----  
Date: Thu, 19 Sep 2002 16:04:21 -0500  
From: "Tim, N9PUZ" <n9puz@arrl.net>  
To: <leon\_heller@hotmail.com>,  
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135539] Re: Making PCBs at home (long)  
Message-ID: <200209192101.QAA26504@zinc.eosinc.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

On Thu, 19 Sep 2002 18:35:39 +0100, Leon Heller wrote:

>EasyPC is very good value (it's out of the same stable) for=  
less  
>critical applications; I used it for years. I've been testing=  
the  
>new version, and it's very good: <http://www.numberone.com/>

I'll second that. I use EasyPC for work and it is very capable=  
for the money.

Tim, N9PUZ  
<http://www.qsl.net/n9puz>

-----  
Date: Thu, 19 Sep 2002 17:21:26 -0400  
From: "W3CDE Jerry L." <w3cde@bellsouth.net>  
To: hubert.smits@btinternet.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135540] Re: Sound samples  
Message-ID: <3D8A3FD6.DF164587@bellsouth.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

AH!!! I found the data mode on 18.085-.095 Mhz 8-)

Thanks

Jerry  
W3CDE

Hubert Smits wrote:

>  
> OM's,  
>  
> Via the Dutch ham newsgroup I found this website with .wav file from a  
> various digital modes:  
>  
> <http://rover.vistecprivat.de/~signals/index.html>  
>  
> 72 de Hubert - MM0GMM

-----  
Date: Thu, 19 Sep 2002 21:28:41 +0000  
From: "Leon Heller" <leon\_heller@hotmail.com>  
To: khopper@uchicago.edu, qrp-1@lehigh.edu  
Subject: [135541] re: ChipQuick kit (de ken n9vv)  
Message-ID: <F53dfdhnZw3l1GM3h3v0000018f@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

>From: Ken Hopper <khopper@uchicago.edu>  
>Reply-To: khopper@uchicago.edu  
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
>Subject: re: ChipQuick kit (de ken n9vv)  
>Date: Thu, 19 Sep 2002 12:28:04 -0500  
>  
>Found this on Google  
><http://www.emulation.com/cq2000/>  
>looks worthwhile  
>  
>But what do these mean? Can someone help me decode these modern mounting  
>methods?  
>  
>QFP's, PLCCs, SOICs, TSOPs, SSOPs  
>  
>TU  
>de ken n9vv

Quad Flat Pack, Plastic Leadless Chip Carrier, Small Outline IC, Thin Shrink  
Outline Package and Shrink Small Outline Package (?). They aren't all that

modern, BGA (Ball Grid Array) and CSP (Chip Scale Package) are widely used for the latest microprocessors and programmable logic devices.

Leon

--

Leon Heller, G1HSM Tel: +44 1424 14790

Email:leon\_heller@hotmail.com

My web page: [http://www.geocities.com/leon\\_heller](http://www.geocities.com/leon_heller)

My low-cost Altera Flex design kit: <http://www.leonheller.com>

---

Join the world s largest e-mail service with MSN Hotmail.  
<http://www.hotmail.com>

-----

Date: Thu, 19 Sep 2002 14:35:25 -0700 (PDT)  
From: Shawn Upton <kb1ck@t@yahoo.com>  
To: qrp-l@lehigh.edu  
Subject: [135542] Re: QRP-L digest 2682  
Message-ID: <20020919213525.14955.qmail@web10102.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Or fall on someone (where'd the guy go who dropped his  
K1 at 5,000 feet?)...

\*\*\*\*

Date: Wed, 18 Sep 2002 10:49:19 -0500

From: "KD5NWA"

To: ,

"Low Power Amateur Radio Discussion"

Subject: [135394] RE: Weights For the "E-Z Hang"

Message-ID:

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Let's outlaw radios, they can be thrown at somebody  
and hurt them.

Cecil  
KD5NWA

---

Do you Yahoo!?  
New DSL Internet Access from SBC & Yahoo!  
<http://sbc.yahoo.com>

-----  
Date: Thu, 19 Sep 2002 16:36:23 -0500  
From: "Tim, N9PUZ" <n9puz@arrl.net>  
To: <w2agn@w2agn.net>,  
Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [135543] Re: Rock-Mite Kicks Atmosphere  
Message-ID: <200209192131.QAA12146@steel.eosinc.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: quoted-printable

On Thu, 19 Sep 2002 15:24:22 -0400, W2AGN wrote:

>  
>4 elements at 110' feet...grumble, grumble....(envy,envy....).  
>  
>  
>Here's a guy that doesn't live in a place with antenna=  
restrictions!  
>

Either that or they've decided not to mess with anyone that so=  
flagrantly defies the rules!

Tim, N9PUZ  
<http://www.qsl.net/n9puz>

-----  
Date: Thu, 19 Sep 2002 17:40:37 -0400  
From: W2AGN <w2agn@w2agn.net>  
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [135544] 10M Hoppin' Today  
Message-ID: <3D8A0C15.22869.1B28FF49@localhost>  
MIME-version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-description: Mail message body

Around 1PM EDT. (1700 UTC) 10M was open all over, Europe, Africa and the Middle East. Worked a few myself, (including 7X4AN, a new one), and heard stations as far west as NM getting into the action. Died out here around 1830Z, but was a nice

opening, and hopefully signs of things to come. Autumnal Equinox is about in time for QRP

Afield! Will have to make sure I have 10M rig along with the K1 for QRP Afield. If you are home for lunch, it wouldn't hurt to check out 10M.

--

/ \ / \ / \ / \ / \ John L. Sielke  
( W )( 2 )( A )( G )( N ) <http://www.w2agn.net>  
 \\_ / \\_ / \\_ / \\_ / \\_ / QRPARCI, NJQRP, ARQrp, GQRP, RSGB  
Ex- K3HLU, W7JEF, W4MPC, N4JS

-----  
Date: Thu, 19 Sep 2002 17:32:39 -0400  
From: Rick McKee <kc8aon@juno.com>  
To: rmcnelly@cox.net, qrp-l@lehigh.edu  
Subject: [135545] Re: 12 volt portable power source.  
Message-ID: <20020919.174835.8934.2.kc8aon@juno.com>

2 six volt batteries will have to be wired in series to have 12 volts !

72/73 DE: [K] [C] [8] [A] [O] [N]  
Rick McKee  
Willow Wood, Ohio  
QRP- do more with less !  
QRP-L #2112, FPqrp #33, AR QRP #269

On Wed, 18 Sep 2002 22:46:32 +0000 "rmcnelly@cox.net" <rmcnelly@cox.net> writes:

> Kelly if you open the case, it probably has two 6v 4AH Gell Cells  
> wired in  
> parallel. I replaced mine with a 12v 7AH Gell Cell, dropped right in.  
>  
> 72/73,  
>  
> --Rick, KE4IZH  
> K2#663/Sierra  
> '93 ST1100  
> STOC#3210  
> '83 GL650i  
> Chesapeake, Va  
>> My beloved "Power Source" unit I bought at Target a couple of years  
> ago is  
>> not working.  
>>  
>> I Checked Target, and don't find the Power Source on the shelf (in  
> the

>> camping section). It is a rechargeable 12 volt  
>> source with 2 lighter plugs and variable voltage outputs. Anyone  
>know of a  
>> similar unit available?  
>>  
>> Don't really care for the "Auto-Type" That are made to jump start  
>your car.  
>> Hopefully there is another source for these.  
>>  
>> Kelly Ellison - WBOWQS  
>  
>

---

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<http://dl.www.juno.com/get/web/>.

-----  
Date: Thu, 19 Sep 2002 17:04:41 -0500  
From: "Dennis Payton" <dpayton@fwi.com>  
To: <qrp-1@lehigh.edu>  
Subject: [135546] Plated-Thru Hole Blues  
Message-ID: <000001c26029\$616611c0\$b0a854d1@locke>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

It seems like all the kits nowadays advertise high quality boards with plated-through holes. Are plated-through holes really something a builder should desire? I realize there are several advantages to them, and sometimes they're necessary, but to me, they're usually a pain in the neck. I like to have the freedom to easily connect & disconnect wires, and install & remove components. I seldom had trouble with the cheaper boards, except for lifting a solder trace once & a while, and that was simple to deal with. But with plated-through holes, I believe you're immediately limited as to what you can do, and if you need to make a change, a lot of the time you spend on the project may be spent clearing holes & stressing component leads.

Okay, back to clearing my plated-thru hole,

Denny Payton, N9JXY  
Auburn, IN

-----  
Date: Thu, 19 Sep 2002 17:26:47 -0500  
From: "George, W5YR" <w5yr@att.net>  
To: dpayton@fwi.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135547] Re: Plated-Thru Hole Blues  
Message-ID: <3D8A4F27.3AC29105@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Depends upon the circuit and devices, but usually the advantages of a two-sided board layout outweigh the disadvantages of the PTHs.

73/72, George  
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe  
Amateur Radio W5YR - the Yellow Rose of Texas  
In the 57th year and it just keeps getting better!

Dennis Payton wrote:

>  
> It seems like all the kits nowadays advertise high quality boards with  
> plated-through holes. Are plated-through holes really something a builder  
> should desire? I realize there are several advantages to them, and sometimes  
> they're necessary, but to me, they're usually a pain in the neck. I like to  
> have the freedom to easily connect & disconnect wires, and install & remove  
> components. I seldom had trouble with the cheaper boards, except for lifting  
> a solder trace once & a while, and that was simple to deal with. But with  
> plated-through holes, I believe you're immediately limited as to what you  
> can do, and if you need to make a change, a lot of the time you spend on the  
> project may be spent clearing holes & stressing component leads.  
>  
> Okay, back to clearing my plated-thru hole,  
>  
> Denny Payton, N9JXY  
> Auburn, IN

-----  
Date: Thu, 19 Sep 2002 18:41:05 -0400  
From: wkhibbert@juno.com  
To: qrp-l@lehigh.edu  
Subject: [135548] CW Frequency Readout :Icom IC-T90A  
Message-ID: <20020919.184105.-370703.0.wkhibbert@juno.com>  
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

After wondering if anyone would eventually come out with a user-friendly radio for the visually-impaired VHF/UHF ham, Icom has done just that.

The October 2002 QST has an ad for the new Icom IC-T90A right on page 1. Among other things, it runs 5 watts out on the 6M, 2M and 70 cm bands, has general coverage RX from 495 KHz to 999.999 MHz (cell-blocked) and has a Morse Code Synthesizer!

The MCS will read the frequency out at a user-programmable speed via Morse Code.

Now, the next Technician that asks you why they would need CW, you have an answer for them.

73, Wm. Keith Hibbert, WB2VUO, TC/WNY ARRL Section  
President, Brockport Amateur Radio Klub  
"My night light runs more power than my Rig!!!"

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Date: Thu, 19 Sep 2002 18:50:42 -0400  
From: VE3JC John Cumming <jbccumming@wwdc.com>  
To: david.gauding@bbs.galilei.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135549] Argo 509's and QRP Collectables ...  
Message-ID: <3D8A54C2.4080708@wwdc.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Transfer-Encoding: 7bit

I enjoyed Dave NF0R's delightful "golden post" on the Argonaut 509. But it reminded me of something that has puzzled me for several years...

While we QRP folk "celebrate" modifications and home-brew enhancements to new QRP rigs, we frequently "devalue" classic qrp gear which has undergone similar modification!

After 20 years of admiring the 509, I finally adopted one this year. It isn't perfect, but it has character. Now, I could look on the mods



done by previous owners as "blemishes" to a "perfect 509", or I can choose to enjoy them as practical mod's done by a smart QRP operator. These particular mods include a front panel mic jack, a front-panel "power on" led, and a "classic" triton outboard digital display!

I'm not denying that many classic rigs have been tragically butchered. W8KC will verify that 1970-era QRPers had a sick urge to turn Ten Tec Powermites into blocks of swiss cheese with a power drill! But even though a classic rig is not "perfect" (or is in non-working condition!) it can still be the source of much enjoyment.

Owning a perfect classic rig (like owning a pristine classic sports car) can be dangerous to your health and enjoyment of collecting. So if you own a perfect 509, SELL IT! - with the proceeds, buy one butchered 509 to tinker with, and one "modified" working 509 to take to field day and enjoy with your friends.

To paraphrase a recently-heard quote, 'the pursuit of excellence is wholesome and rewarding, the pursuit of perfection is a waste of time". So if you come across a modified classic rig that is "Excellent!" be sure to pick it up.

For the past few years I have been assembling a "72 in '72" collection of Ten Tec Powermites and accessories. The collection includes a PM2 and PM3, plus a variety of ten tec accessories, ads, manuals, etc. It all fits in a large fibreglass transit case, and can be easily set up to provide two working powermite stations. Because the equipment is not perfect, I don't worry about it getting scratched or damaged. It is not to be kept in hermetically sealed display cases, and is intended to be "hands on". I'd be delighted to take it to any qrp gathering within a loooong drive of my southern Ontario qth.

Like NF0R and W8KC, I have a fondness for classic Ten Tec QRP gear. Since I'm not American, my fondness obviously doesn't arise from flag-waving nationalism. I guess those argonauts and powermites are just so gosh darn cute!

By the way, if W8KC takes my advice to heart and decides to unload his perfect ten tec gear, I sure hope he calls me first ;^)

72, John VE3JC

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Date: Thu, 19 Sep 2002 17:54:44 -0500  
From: Nick Kennedy <nkennedy@tcainternet.com>  
To: "'dpayton@fwi.com'" <dpayton@fwi.com>,

Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135550] RE: Plated-Thru Hole Blues  
Message-ID: <01C26005.A3C820E0.nkennedy@tcainternet.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

I'm with you; they're a pain in the neck. I lift enough pads with plain old single sided boards. I don't need any more help!

72--Nick, WA5BDU

-----Original Message-----

From: Dennis Payton [SMTP:dpayton@fwi.com]

It seems like all the kits nowadays advertise high quality boards with plated-through holes. Are plated-through holes really something a builder should desire?

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End of QRP-L Digest 2683

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